



CATALOGUE 2010

Elektrosvit

Svatobořice, a. s.



Dear Trading Partners,

We would like to acquaint you with a new catalogue of the production program of the joint-stock company ELEKTROSVIT Svatoborice, a. s., a traditional Czech manufacturer of electric luminaires with more than 100-years-tradition.

- **History:** The original plant was built by Jindrich Wiktorin as early as 1906 along the railway line in Svatoborice-Mistrin, about 50 km away from Brno at the heart of Southern Moravia. The facility was part of Elektrosvit group from 1950 to 1993 when it was transformed into a state-controlled joint stock company called ELEKTROSVIT Svatoborice. The company stock is now in the hands of private investors.

- **Main production program:** Electric luminaires for all kinds of light sources, such as bulbs, halogen bulbs, high-pressure mercury and sodium discharge lamps, metal halide lamps, linear halogen lamps, linear fluorescent lamps and economical fluorescent lamps with built-in ballast.

We manufacture exterior luminaires for all kinds of purposes – **public, street, park and garden luminaires as well as industrial and specialized ones (machinery, railway-car and emergency illumination) and floodlights.** Our special program consists in producing **flameproof electric luminaires for areas with explosive atmosphere (Ex)**, such as gas-plagued mines, chemical plants, compressed-air units, crude oil and natural gas production plants and refineries, power stations incl. nuclear, heating stations, paintshops, mills and papermills etc. Our range of lighting devices, ballasts and accessories is sophisticated thanks to our long-standing tradition and a continuously applied upgrading process.

- **Additional assortment:** To offer a comprehensive range of lighting equipment we also provide light sources, electric lighting poles, brackets and other necessary accessories, including customized products, coloured products or bespoke luminaires outside the production program of the company, including spare parts, as shown in this catalogue. Our range also includes products by the Slovak companies SEC Nitra, EleSvit Nove Zamky and Elektrosvit Vrakun. We supply **plastic poles** for public lighting resistant to the environment, corrosion, salts, acids and UV light, closely resembling iron poles while weighing and costing several times less. Last years we offer installation of **electronic ballast Ecolum**, that can save up to 40% of energy and prolong the life of discharge lamps by up to 25%.

- **Custom-made production:** CNC machine tooling (lathe; hydraulic folding brake HACO; boring and milling centre); boring, milling, resistance (spot) welding, compression moulding; surface treatment with powder paints or metal surface treatment (phosphating, zinc-coating, chromating).

- **Certification: Declarations of Conformity** according to the regulations in force accompany all standard luminaires manufactured by ELEKTROSVIT Svatoborice, a. s. The luminaires are made in accordance with standards **ČSN EN**. Flameproof luminaires are certified by AO 210 - FTZU Ostrava-Radvanice (notified body) and they comply with the requirements of **ATEX 94/9 EC**. Our luminaires are also certified according **GOST R** for Russian market, incl. Resolution for use. In 2001, TÜV CZ awarded the company a quality assurance certificate, now already valid according to last amendment: **ČSN EN ISO 9001:2009**. The name of Elektrosvit is registered by the Industrial Property Office under heading No. 251515.

We strive to meet our customers' requirements by innovating our range of products and improving their engineering characteristics and reliability, prolonging their life, enhancing their protection and cutting down on their energy demands while refining their design and enhancing the environmental characteristics of their manufacture. We take part in the following systems:

- **EKO-KOM** system that ensures combined observance of all duties concerning packing waste disposal and further effective recycling (customer No. EK-F06020595);

- **EKOLAMP** system that ensures salvage and recycling of electric devices, incl. Group 5 – Luminaires and light sources (client No. 00273/05-ECZ).

- **Trading activities:** Primarily focus on the Czech market through contracting wholesalers. Our exports head towards the Slovak market in particular and occasionally towards the countries of Central, Eastern and South-Eastern Europe, the other EU members, and the Middle East.

- **Presentations and exhibitions:** The company participates in exhibitions both within and outside Czech territory and takes part in regular specialized workshops regarding lighting engineering. We offer our designers and all our trading partners a free CD containing software **DIALUX** (www.dialux.com in selected language) for calculating both interior and exterior lighting systems, including a database of our lighting devices in Eulumdat format. The software is MS Windows compatible and it is also available from our web site www.elektrosvit.eu. For Russian-language markets also web sites www.elektrosvit.ru or www.rm-tg.ru available. For calculation of lighting systems there is also possible to use software **RELUX** (available at web site www.relux.ch in selected language).

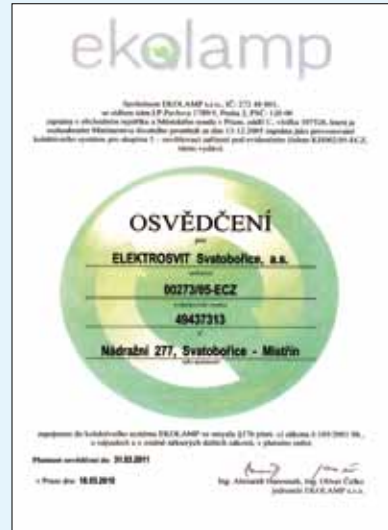
Additional information about the company and its range of products, terms of delivery, commercial terms, discounts and other details is available from the company headquarters. All prospective customers are welcome to call in or contact us by post. We are looking forward to a continued cooperation with all our trading partners!

Sincerely,

Imrich Meszaros
Chairman of the Company
Manager of Sales and Logistics



Certificates



Company's CD-ROM – content:

- catalogue of luminaires, incl. accessories and spare parts
- plastic poles for outdoor illumination
- computer program for light calculations DIALUX incl. database Eulumdat of selected luminaires
- certificates
- references

Review of flameproof luminaires (Ex) incl. ballast boxes

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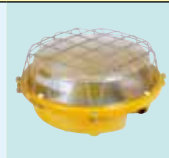

Luminaires for mines (also for Zone 1):

MINEX I 10		MINEX II 11	
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Zone 1 / Zone 21:

ORION 12 - 13		ORION Version K 12 - 13		ORION Version F 12 - 13		ORION Version KF 12 - 13	
SIRIUS 14 - 15		SIRIUS Version K 14 - 15		SIRIUS Version F 14 - 15		SIRIUS Version KF 14 - 15	
HERKULES 16 - 17		HERKULES Version K, Kt 16 - 17		HERKULES Version Ft 16 - 17		HERKULES Version KFt 16 - 17	
HERKULES Version with holder 16 - 17		BOX 1 15					

Zone 2 / Zone 22:

BILUX 20 - 21		TRILUX 19		SIMPLEX 18		BOX 2 22	
SAFELUX MULTISAFE <i>emergency</i> 21		LINEX 22					

KEY - SYMBOLS USED



Light source
(sign, output, cap)



Direct installation
to current combustible base



EU conformity
certificate



Degree of protection



Rated maximum ambient
temperature (°C)



Corresponding
standard



Protection class I



Working
altern.-current voltage (V/Hz)



Corresponding
standard



Protection class II



Working
direct-current voltage (V)



Marking of equipment
for use in potentially
explosive atmosphere



Protection class III



Packing (carton, dimensions,
number of pcs)



Position of light source:
vertical, horizontal

Flameproof luminaires according to material and zones

Luminaires for mines (from grey cast iron)		Luminaires for other industry then mines				
For mines: I M2 Ex d I Mb SNM 0, 1, 2 SNP 0, 1, 2*	For other industry: II 2G Ex d IIB Gb II 2D Ex t IIIC Db	From AlSi alloy (for Zone 1)				
Zone 1, Zone 2 Zone 21, 22 / V1, V2, V3	Minex I:	Minex I:	Orion:		Herkules:	
	511 37 01	511 37 01	511 37 02;	511 37 02 K	541 38 03; 541 38 03 K	
	541 33 01	541 33 01	511 37 02 t;	511 37 02 Kt	541 38 04; 541 38 04 K	
	541 33 02	541 33 02	511 37 02 F;	511 37 02 KF	541 38 05; 541 38 05 K	
	581 04 01	581 04 01	511 37 02 S;	511 37 02 KS	541 38 06; 541 38 06 K	
	Minex II:	Minex II:	541 33 03; 541 33 03 K		541 38 07; 541 38 07 K	
	511 38 01	511 38 01	541 33 03 t; 541 33 03 Kt		541 38 08; 541 38 08 K	
		511 38 01 also with ballast box 205.0 or 205.1 (AlSi)	541 33 04; 541 33 04 K		541 38 03 t; 541 38 03 Kt	
			541 33 04 t; 541 33 04 Kt		541 38 04 t; 541 38 04 Kt	
			541 33 04 F; 541 33 04 KF		541 38 05 t; 541 38 05 Kt	
			541 33 06; 541 33 06 K		541 38 06 t; 541 38 06 Kt	
			581 04 02; 581 04 02 K		541 38 07 t; 541 38 07 Kt	
			581 04 02 t; 581 04 02 Kt		541 38 08 t; 541 38 08 Kt	
			Sirius:		541 38 05 Ft; 541 38 05 KFt	
			511 38 02; 511 38 02 K (also with ballast box 205.0 or 205.1)		541 38 06 Ft; 541 38 06 KFt 541 38 07 Ft; 541 38 07 KFt	
		511 38 02 t; 511 38 02 Kt (also with ballast box 205.0 t)				
		511 38 02 F; 511 38 02 KF (also with ballast box 205.0 F)				
Zone 2 Zone 22 / V1, V2, V3	From AlSi alloy (for Zone 2 / Zone 22)					
			Simplex:		581 01 02 n	
			511 14 07 n (also with ballast box 604.6 ntA; 604.6 ntB)		581 01 02 nt	
			511 14 07 nt (also with ballast box 604.6 ntA; 604.6 ntB)		581 01 03 n	
			511 14 07 nSt		581 01 03 nt	
			Bilux – emergency:		Safelux; Multisafe	
			Trilux:			
			Bilux:		511 33 02 n	
			511 32 01 n (also with ballast box 604.6 ntA; 604.6 ntB)		(also with ballast box 604.6 ntA; 604.6 ntB)	
			511 32 01 nt (also with ballast box 604.6 ntA; 604.6 ntB)		511 33 02 nt (also with ballast box 604.6 ntA; 604.6 ntB)	
			511 32 01 nF		511 33 02 nF	
			511 32 01 nSt		511 33 02 nHt	
			511 32 01 nSt		511 33 02 nSt	
			From steel sheet (for Zone 2 / Zone 22)			
			Linex:			
		531 31 05 nt				
		531 31 06 nt				
		531 31 09 nt				

* SNM – methane zone classification, SNP – gas zone classification (in mines)

K luminaire with **protective wire guard** (only at luminaires, that are delivered without guard as standard - ORION, SIRIUS, HERKULES)

t (temperature) luminaire certified at **higher temperature**, than standard one +40 °C (individual value marked by each luminaire)

F (Frost) (temperature) luminaire certified at **lower temperature**, than standard one -20 °C (individual value marked by each luminaire)

S other voltage, than standard one 230 V / 50 Hz

Review of industrial and special luminaires, floodlights and accessories

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Industrial luminaires

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FARMER II 24		FARMER II 24 - 25		FARMER II 24 - 25	
TUB 23		TURTLE 23		FARMER III 25	
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PRACHO + <i>emergency</i> 27		MERIDIAN 27		KOREX 27	

Floodlights

HEADLIGHT 28		HALSPOT I 29		HALSPOT II 29	
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Review of outdoor luminaires and poles for public illumination (streets, parks, gardens, residential districts)

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Outdoor luminaires

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KOULE A on shaft - opal 37		KOULE B on bracket - opal 37		KUZEL 38	
KOULE A on shaft - clear 37		KOULE B on bracket - clear 37		OPC AURIS 39	
OP PRIZMA 38		OP OPAL 38		LUCERNA opal cover 39	
ATTACHE on bracket 39		ATTACHE on shaft 39		LUCERNA clear cover 39	

Poles S

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Poles SP

41



Illuminative poles SAM, SAP

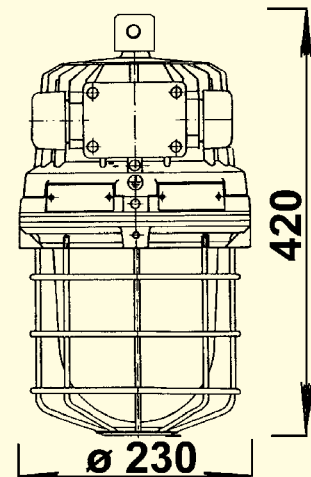
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List of all types (luminaires, ballast boxes, poles)

Type	Model	Purpose	Page	Type	Model	Purpose	Page
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1-99.5865	BOX 7	ballast box for floodlights	32	446 05 26 S/A	SADOVKA A	outdoor luminaire on pole	36
1-99.5866	BOX 7	ballast box for floodlights	32	446 05 26 S/B	SADOVKA B	outdoor luminaire on pole	36
1-99.5867	BOX 7	ballast box for floodlights	32	446 05 71 H	SADOVKA	outdoor luminaire on pole	36
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205.0 F	BOX 1	ballast box for flam. lum. to Zone 1	15	446 05 71 S/A	SADOVKA A	outdoor luminaire on pole	36
205.0 t	BOX 1	ballast box for flam. lum. to Zone 1	15	446 05 71 S/B	SADOVKA B	outdoor luminaire on pole	36
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319 04 08	MACHINE	special luminaire	34	446 16 02 Z	KOULE A	outdoor luminaire on pole	37
319 04 09	MACHINE	special luminaire	34	446 17 01 S	KOULE A	outdoor luminaire on pole	37
319 18 01	MACHINE	special luminaire	34	446 17 01 Z	KOULE A	outdoor luminaire on pole	37
341 23 01	HALA I	industrial luminaire	26	446 17 02 S	KOULE A	outdoor luminaire on pole	37
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341 25 01	HALA I	industrial luminaire	26	446 18 01 S	KOULE A	outdoor luminaire on pole	37
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341 31 02	HALA II	industrial luminaire	26	446 19 01 S	KOULE B	outdoor luminaire on bracket	37
341 32 01	HALA II	industrial luminaire	26	446 19 01 Z	KOULE B	outdoor luminaire on bracket	37
341 32 02	HALA II	industrial luminaire	26	446 19 02 S	KOULE B	outdoor luminaire on bracket	37
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444 19 70 A	RAMINKO	outdoor luminaire on bracket	35	446 27 09	KUZEL	outdoor luminaire on pole	38
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444 19 70 E	RAMINKO	outdoor luminaire on bracket	35	446 34 70	ATTACHE	outdoor luminaire on pole	39
444 19 71	RAMINKO	outdoor luminaire on bracket	35	446 35 10	OP PRIZMA	outdoor luminaire on pole	38
444 19 71 (C - E)	RAMINKO	outdoor luminaire on bracket	35	446 35 11	OP PRIZMA	outdoor luminaire on pole	38
444 19 72	RAMINKO	outdoor luminaire on bracket	35	446 35 12	OP PRIZMA	outdoor luminaire on pole	38
444 19 72 (C - E)	RAMINKO	outdoor luminaire on bracket	35	446 35 50	OP PRIZMA	outdoor luminaire on pole	38
444 30 10	CITY	outdoor luminaire on bracket	35	446 35 70	OP PRIZMA	outdoor luminaire on pole	38
444 30 12	CITY	outdoor luminaire on bracket	35	446 35 71	OP PRIZMA	outdoor luminaire on pole	38
444 30 12 P	CITY	outdoor luminaire on bracket	35	446 35 73	OP PRIZMA	outdoor luminaire on pole	38
444 30 70	CITY	outdoor luminaire on bracket	35	446 35 75	OP PRIZMA	outdoor luminaire on pole	38
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444 30 71	CITY	outdoor luminaire on bracket	35	446 36 10	OP OPAL	outdoor luminaire on pole	38
444 33 01	ATTACHE	outdoor luminaire on bracket	39	446 36 11	OP OPAL	outdoor luminaire on pole	38
444 33 02	ATTACHE	outdoor luminaire on bracket	39	446 36 12	OP OPAL	outdoor luminaire on pole	38
444 34 70	ATTACHE	outdoor luminaire on bracket	39	446 36 50	OP OPAL	outdoor luminaire on pole	38
444 42 10	STREET	outdoor luminaire on bracket	36	446 36 70	OP OPAL	outdoor luminaire on pole	38
444 42 10 P	STREET	outdoor luminaire on bracket	36	446 36 71	OP OPAL	outdoor luminaire on pole	38
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444 42 50	STREET	outdoor luminaire on bracket	36	446 37 12	OPC AURIS	outdoor luminaire on pole	39
444 42 50 P	STREET	outdoor luminaire on bracket	36	446 37 50	OPC AURIS	outdoor luminaire on pole	39
444 42 70	STREET	outdoor luminaire on bracket	36	446 37 70	OPC AURIS	outdoor luminaire on pole	39
444 42 70 P	STREET	outdoor luminaire on bracket	36	446 37 71	OPC AURIS	outdoor luminaire on pole	39
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446 05 25 H/A	SADOVKA A	outdoor luminaire on pole	36	486 05 36	ATTACHE	outdoor luminaire on pole	39
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446 05 26 H/A	SADOVKA A	outdoor luminaire on pole	36	511 14 07 nSt	SIMPLEX	flameproof luminaire for Zone 2	18
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Type	Model	Purpose	Page	Type	Model	Purpose	Page
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511 33 02 nF	TRILUX	flameproof luminaire for Zone 2	19	541 38 07 Ft	HERKULES	flameproof luminaire for Zone 1	16
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511 33 02 nSt	TRILUX	flameproof luminaire for Zone 2	19	541 38 07 Kft	HERKULES	flameproof luminaire for Zone 1	16
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511 37 02 F	ORION	flameproof luminaire for Zone 1	12	541 38 08 K	HERKULES	flameproof luminaire for Zone 1	16
511 37 02 K	ORION	flameproof luminaire for Zone 1	12	541 38 08 Kt	HERKULES	flameproof luminaire for Zone 1	16
511 37 02 KF	ORION	flameproof luminaire for Zone 1	12	541 38 08 t	HERKULES	flameproof luminaire for Zone 1	16
511 37 02 KS	ORION	flameproof luminaire for Zone 1	12	542 02 01	FARMER II	industrial luminaire	24
511 37 02 Kt	ORION	flameproof luminaire for Zone 1	12	542 07 01	FARMER II	industrial luminaire	24
511 37 02 S	ORION	flameproof luminaire for Zone 1	12	543 01 01	FARMER II	industrial luminaire	24
511 37 02 t	ORION	flameproof luminaire for Zone 1	12	543 05 01	FARMER II	industrial luminaire	24
511 38 01	MINEX II	flameproof luminaire for mines	11	581 01 01	TUB	industrial luminaire	23
511 38 02	SIRIUS	flameproof luminaire for Zone 1	14	581 01 02	TUB	industrial luminaire	23
511 38 02 F	SIRIUS	flameproof luminaire for Zone 1	14	581 01 02 n	BILUX	flameproof luminaire for Zone 2	20
511 38 02 K	SIRIUS	flameproof luminaire for Zone 1	14	581 01 02 nt	BILUX	flameproof luminaire for Zone 2	20
511 38 02 KF	SIRIUS	flameproof luminaire for Zone 1	14	581 01 03 n	BILUX	flameproof luminaire for Zone 2	20
511 38 02 Kt	SIRIUS	flameproof luminaire for Zone 1	14	581 01 03 nt	BILUX	flameproof luminaire for Zone 2	20
511 38 02 t	SIRIUS	flameproof luminaire for Zone 1	14	581 04 01	MINEX I	flameproof luminaire for mines	10
512 04 01	FARMER I	industrial luminaire	24	581 04 02	ORION	flameproof luminaire for Zone 1	12
513 04 01	FARMER I	industrial luminaire	24	581 04 02 K	ORION	flameproof luminaire for Zone 1	12
529 04 01	FLOODLIGHT	special floodlight	33	581 04 02 Kt	ORION	flameproof luminaire for Zone 1	12
529 04 02	FLOODLIGHT	special floodlight	33	581 04 02 t	ORION	flameproof luminaire for Zone 1	12
531 18 03 IN	PRACHO	industrial luminaire	27	581 29 01	FARMER I	industrial luminaire	24
531 18 13	PRACHO	industrial luminaire	27	582 04 01	FARMER I	industrial luminaire	24
531 18 19	PRACHO	industrial luminaire	27	583 04 01	FARMER I	industrial luminaire	24
531 18 20	PRACHO	industrial luminaire	27	604.6 ntA	BOX 2	ballast box for flam. lum. to Zone 2	22
531 31 01	PRACHO	industrial luminaire	27	604.6 ntB	BOX 2	ballast box for flam. lum. to Zone 2	22
531 31 13	PRACHO	industrial luminaire	27	622.1 ES	BOX T	ballast box for floodlight TITAN	31
531 31 19	PRACHO	industrial luminaire	27	622.2 ES	BOX T	ballast box for floodlight TITAN	31
531 31 05 nt	LINEX	flameproof luminaire for Zone 2	22	637 06 06	VAGON	luminaire for carriages	34
531 31 06 nt	LINEX	flameproof luminaire for Zone 2	22	637 06 07	VAGON	luminaire for carriages	34
531 31 09 nt	LINEX	flameproof luminaire for Zone 2	22	637 22 01	VAGON	luminaire for carriages	34
541 01 01	MERIDIAN	industrial luminaire	27	637 22 02	VAGON	luminaire for carriages	34
541 01 03	MERIDIAN	industrial luminaire	27	637 27 07	METRO	luminaire for carriages	34
541 01 04	MERIDIAN	industrial luminaire	27	641 02 01	HALA III	industrial luminaire	26
541 02 01	MERIDIAN	industrial luminaire	27	641 02 02	HALA III	industrial luminaire	26
541 10 04	KOREX	industrial luminaire	27	641 02 03	HALA III	industrial luminaire	26
541 10 06	KOREX	industrial luminaire	27	641 02 05	HALA III	industrial luminaire	26
541 10 07	KOREX	industrial luminaire	27	641 02 06	HALA III	industrial luminaire	26
541 10 08	KOREX	industrial luminaire	27	641 03 01	HALA III	industrial luminaire	26
541 10 09	KOREX	industrial luminaire	27	641 03 02	HALA III	industrial luminaire	26
541 10 10	KOREX	industrial luminaire	27	641 03 03	HALA III	industrial luminaire	26
541 10 11	KOREX	industrial luminaire	27	641 03 05	HALA III	industrial luminaire	26
541 17 01	FARMER II	industrial luminaire	24	713 01 02	SPOT I	floodlight	32
541 18 01 t	FARMER III	industrial luminaire	25	723 01 01	HALSPOT I	floodlight	29
541 19 01	TITAN	floodlight	31	723 01 02	HALSPOT I	floodlight	29
541 19 02	TITAN	floodlight	31	723 04 02	HALSPOT II	floodlight	29
541 24 01	FARMER II	industrial luminaire	24	723 06 01	SPOTLIGHT	floodlight	28
541 33 01	MINEX I	flameproof luminaire for mines	10	723 06 15	SPOTLIGHT	floodlight	28
541 33 02	MINEX I	flameproof luminaire for mines	10	723 06 70	SPOTLIGHT	floodlight	28
541 33 03	ORION	flameproof luminaire for Zone 1	12	743 01 02	SPOT I	floodlight	32
541 33 03 K	ORION	flameproof luminaire for Zone 1	12	743 01 03	SPOT I	floodlight	32
541 33 03 Kt	ORION	flameproof luminaire for Zone 1	12	743 01 05	SPOT II	floodlight	33
541 33 03 t	ORION	flameproof luminaire for Zone 1	12	743 01 06	SPOT II	floodlight	33
541 33 04	ORION	flameproof luminaire for Zone 1	12	743 01 07	SPOT II	floodlight	33
541 33 04 F	ORION	flameproof luminaire for Zone 1	12	743 01 08	SPOT II	floodlight	33
541 33 04 K	ORION	flameproof luminaire for Zone 1	12	743 01 09	SPOT II	floodlight	33
541 33 04 KF	ORION	flameproof luminaire for Zone 1	12	743 01 10	SPOT II	floodlight	33
541 33 04 Kt	ORION	flameproof luminaire for Zone 1	12	743 02 10	RPG I	floodlight	30
541 33 04 t	ORION	flameproof luminaire for Zone 1	12	743 02 15	RPG I	floodlight	30
541 33 06	ORION	flameproof luminaire for Zone 1	12	743 02 70	RPG I	floodlight	30
541 33 06 K	ORION	flameproof luminaire for Zone 1	12	743 03 25	RPG II	floodlight	30
541 38 03	HERKULES	flameproof luminaire for Zone 1	16	743 03 40	RPG II	floodlight	30
541 38 03 K	HERKULES	flameproof luminaire for Zone 1	16	743 05 12	HEADLIGHT	floodlight	28
541 38 03 Kt	HERKULES	flameproof luminaire for Zone 1	16	743 05 70	HEADLIGHT	floodlight	28
541 38 03 t	HERKULES	flameproof luminaire for Zone 1	16				
541 38 04	HERKULES	flameproof luminaire for Zone 1	16		Safelux	emergency Ex luminaire for Zone 2	21
541 38 04 K	HERKULES	flameproof luminaire for Zone 1	16		Multisafe	emergency Ex luminaire for Zone 2	21
541 38 04 Kt	HERKULES	flameproof luminaire for Zone 1	16				
541 38 04 t	HERKULES	flameproof luminaire for Zone 1	16		Sloup S	plastic pole - decorated	40
541 38 05	HERKULES	flameproof luminaire for Zone 1	16		Sloup SP	plastic pole - plain	41
541 38 05 Ft	HERKULES	flameproof luminaire for Zone 1	16				
541 38 05 K	HERKULES	flameproof luminaire for Zone 1	16		SAM	illuminative poles	42
					SAP	illuminative poles	42



Use: For illumination in mines and underground spaces susceptible to firedamp. Also for other industrial places (indoor, outdoor or under shelter). See specification.

Technical description: Luminaire consists from body, basic plate and flange with protective glass. Body and flange are castings from grey cast iron treated with polyester powder paint. Steel pendant with eye \varnothing 18 mm is fixed to the upper part. Connecting area (increased safety „d“) with connecting clamps and 2 cable glands is placed on the side of luminaire. Flange cable glands No. 3-99.5747/1 from grey cast iron are designed for cable \varnothing 10 - 16 mm (No. 3-99.6170/1 for cable \varnothing 16 - 20 mm). Area is enclosed with cover from grey cast iron. Steel basic plate with electric parts and reflector is fixed in the body. Flange with glass cover is screwed in the body and secured with locking screw and silicon sealing against unlocking; thread shapes a rift of flameproof enclosure „d“. Protective hardened glass is resistant against mech. shock min. 7 J and is fixed in the flange; the connection is filled with a polyurethan putty. A steel hinge is fixed to the flange as the mobile one and enables to hang up the flange during mounting or dismounting. Steel parts are galvanized and chromated. Luminaire is equipped with protective guard from galvanized steel wire. Max. section of connecting conductors 4 mm². Three-pole connecting terminal block enables interchanging 2 phases (4-core cable). Luminaire is equipped with 2 inner and 1 outer earthing clamps for conductive connection. Luminaire is designed as the through-way one, when used as end piece, there is necessary to use blinding plug (optionally on order). Packing carton is filled with polyurethane foam Instapak.

Accessories (on order): lampshade 254.5021/01, holder 4-99.8103 for immovable fixing to ceiling, holder 338.2735 for immovable fixing to wall, blinding plug 547.2540/1, wrench M 205x2 type 3-99.6158/1, flange cable gland 3-99.6170/1. Optical red insert 439.2565, green 439.2566 or clear with refractor 439.2571 for signalling purposes for type 511 37 01 (with bulb max. 60 W only).

Spare parts (on order): protective guard type 2-99.7461, flange with glass type 3-99.5741/1.



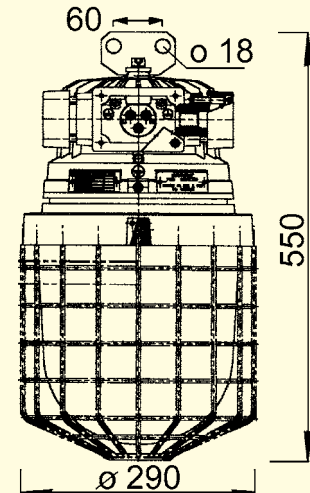
-20 °C ≤ t _a ≤ +40 °C							
Types	Recommended light source			Temper. class	T _{max. surf.} (°C)	Voltage (V/Hz)	Weight (kg)
511 37 01	Halogen bulb Philips	EcoClassic	140	T4	105	~ 230 / 50	18.0
	Halogen bulb Philips	EcoClassic	105	T5	91		
	Halogen bulb Philips	EcoClassic	70	T6	79		
	Compact fluor. lamp Philips Master	PL Electronic	23	T6	62		
	Bulb	CLAS	200	T4	105		
	Bulb	CLAS	150	T5	92		
	Bulb	CLAS	60 - 100	T6	80		
	Compact fluor. lamp	DULUX EL	23	T6	60		
541 33 01	HP mercury vapour lamp	HQL	80	T4	95	~ 230 / 50	19.0
	HP sodium disch. lamp	NAV-E 50/I	50	T4	85		
541 33 02	HP mercury vapour lamp	HQL	125	T4	121	~ 230 / 50	18.5
	HP sodium disch. lamp	NAV-E	110	T4	100		
581 04 01	Compact fluor. lamp	DULUX D	26	T6	59	= 220 V (DC)	

230 V 50 Hz	DC 220 V		ČSN EN 60598-1 60598-2-1	ČSN EN 60079-0,1	ČSN EN 60079-31	321.4 AD5	321.5 AE6	321.6 AF1, AF2, AF3	321.7.1 AG2	321.7.2 AH2	M2: ČSN EN 1127-2 BE3N1: ČSN EN 61241-14 (Zone 21, 22) BE3N2: ČSN EN 60079-14 (Zone 1, Zone 2) BE3N3: ČSN EN 33 2340 (V1, V2, V3)	
											Carton (mm/ pcs) 430 x 240 x 240 / 1	-20 °C ≤ t _a ≤ +40 °C

MINEX II

I M2 Ex d I
II 2GD Ex d tD IIB T3 - T4 T_{max. surf.}

IP 65



Use: For illumination in mines and underground spaces susceptible to firedamp. Also for other industrial places (indoor, outdoor or under shelter). See specification.

Technical description: Luminaire consists from body, basic plate and flange with protective glass. Body and flange are castings from grey cast iron treated with polyester powder paint. Luminaire can be suspended by the steel pendant with 2 eyes \varnothing 18 mm on the upper part of the body. Connecting area (increased safety „d“) with connecting clamps and 2 cable glands is placed on the side of luminaire. Flange cable glands No. 3-99.5747/1 from grey cast iron are designed for cable \varnothing 10 - 16 mm (No. 3-99.6170/1 for \varnothing 16 - 20 mm optionally). Area is enclosed with cover from grey cast iron. Steel basic plate with electric parts and reflector is fixed in the body. Flange with glass cover is screwed in the body and secured with locking screw and silicon sealing against unlocking; thread shapes a rift of flameproof enclosure „d“. Protective hardened glass resistant against mech. shock min. 7 J is fixed to the flange; the connection is filled with polyurethane putty. A steel hinge is fixed to the flange as the mobile one and enables to hang the flange during mounting or dismounting. Steel parts are galvanized and chromated. Luminaire is equipped with protective guard from steel wire. Max. section of connecting conductors 4 mm². Three-pole connecting terminal block enables interchanging 2 phases. Luminaire is equipped with 2 inner and 1 outer earthing clamps for conducting connection. Luminaire is designed as the through-way one for 4-core cable; when used as the end piece, there is necessary to use blinding plug (optionally on order). Packing carton is filled with polyurethane foam Instapak.

Accessories (on order): lampshade type 154.5041/02, blinding plug type 547.2540/1, flange cable gland 3-99.6170/1, wrench M 205x2 type 3-99.6159, holder 338.2735 for immovable fixing to wall.

Spare parts (on order): protective guard 1-99.5856, flange with glass 2-99.5917/1.

$-20^{\circ}\text{C} \leq t_a \leq +40^{\circ}\text{C}$

Type	Recommended light source		Temper. class	T _{max. surf.} (°C)	Weight (kg)
511 38 01	Bulb	SPC.A T CL 500	T4	115	24.0
	Bulb	SPC.A T CL 300		95	
	Mixed-light lamp	HWL 500	T3	150	

NOTE! It is not possible to use this luminaire with ballast boxes 205.0 or 205.1 in mines!

Only in spaces other than mines the following light sources are allowed (with ballast box BOX 1 - see page 15):

$-20^{\circ}\text{C} \leq t_a \leq +40^{\circ}\text{C}$

Type	Recommended light source		Temper. class	T _{max. surf.} (°C)	Ballast box	Weight (kg)
511 38 01	HP mercury vapour lamp	HQL 250	T4	105	205.0	24.0
	HP sodium disch. lamp	NAV-E 210		90		
	HP mercury vapour lamp	HQL 400	T3	150	205.1	
	HP sodium disch. lamp	NAV-E 350	T4	115		



ČSN EN 60598-1 60598-2-1	ČSN EN 60079-0,1 60079-7	ČSN EN 61241-0,1	ČSN EN 33 2000-3 321.4 AD5 321.5 AE6 321.6 AF1, AF2, AF3 321.7.1 AG2 321.7.2 AH2					M2: ČSN EN 1127-2 BE3N1: ČSN EN 61241-14 (Zone 21, 22) BE3N2: ČSN EN 60079-14 (Zone 1, Zone 2) BE3N3: ČSN EN 33 2340 (V1, V2, V3)	
HWL 500 W E40	SPC.A T CL 500 W E40	HQL 250 W E40	NAV-E 210 210 W E40	HQL 400 W E40	NAV-E 350 350 W E40	230 V 50 Hz		Carton (mm/pcs) 560 x 350 x 300/1	$-20^{\circ}\text{C} \leq t_a \leq +40^{\circ}\text{C}$



Use: For illumination of industrial spaces (indoor, under cover and outdoor), other than mines. See specification.

Technical description: Luminaire consists from body, basic plate and flange with protective glass. Body and flange are made from AlSi alloy treated with polyester powder paint. Luminaire can be suspended by the help of steel pendant with eye \varnothing 18 mm. The connecting area (increased safety „e”) is placed on the side of the body and equipped with connecting clamps and 2 cable glands HSK-K-Ex M25x1.5 for cables \varnothing 9 - 16 mm (HSK-M-Ex for cables 10 - 16 mm by versions F). Area is enclosed with cover and sealed with silicon. The steel basic plate with electric parts and reflector is fixed in the body. Flange with protective glass is screwed in the body and locked with securing screw; thread shapes a rift of flameproof enclosure „d”. Protective hardened glass is resistant against mech. shock min. 7 J and is fixed in the flange; the connection is filled with polyurethane putty. The mobile steel hinge is fixed to the flange and enables to hang up the flange during mounting or dismounting. Steel parts are galvanized and chromated. Max. section of connecting conductors 4 mm². Three-pole connecting terminal block enables interchanging 2 phases (4-core cable). Luminaire is equipped with 2 inner and 1 outer earthing clamps for conductive connection. Luminaire is designed as through-way one, when used as the end piece there is necessary to substitute one cable gland with blinding screw V-Ex or to blind one unused cable gland with blinding plug HSK-V-Ex (for versions F: one cable gland must be replaced with blinding screw V-Ms-VMQ-Ex). The blinding parts can be delivered on order optionally. Versions K are equipped with protective guard from steel wire. Packing carton is filled with sealing polyurethane foam Instapak.

Accessories (on order): lampshade type 254.5021/01, holder type 4-99.7995 for immovable fixing to ceiling, holder type 338.2735 for immovable fixing to wall, blinding plug M25x1.5 type HSK-V-Ex, blinding screw M25x1.5 type V-Ex (V-Ms-VMQ-Ex for versions F), wrench M 205x2 type 3-99.6158/1. Optical red insert 439.2565, green 439.2566 or clear with refractor 439.2571 for signalling purposes (by types 511 37 02 or 511 37 02 K, with bulb max. 60 W only).

Spare parts (on order): protective guard 2-99.7461, flange with glass type 3-99.5722/1 (for basic versions and versions t), type 3-99.5722K/1 (for versions K and Kt), type 3-99.5722F/1 (for versions F), type 3-99.5722KF/1 (for versions KF), cable gland HSK-K-Ex (HSK-M-Ex for versions F and KF).



230 V 50 Hz	DC 220 V		ČSN EN 60598-1 60598-2-1	ČSN EN 60079-0,1 60079-7	ČSN EN 60079-31	ČSN EN 33 2000-3 321.4 AD5	321.5 AE6	321.6 AF1, AF2, AF3	321.7.1 AG2	321.7.2 AH2	BE3N1: ČSN EN 61241-14 (Zone 21, 22) BE3N2: ČSN EN 60079-14 (Zone 1, Zone 2) BE3N3: ČSN EN 33 2340 (V1, V2, V3)			
 EcoClassic 140 W E27	 DULUX EL 23 W E27	 Master PLE 23 W E27	 PLE GLOBE 23 W E27	 CLAS 200 W E27	 HQL 80 W E27	 NAV-E-50/I 50 W E27	 HQL 125 W E27	 NAV-E-110 110 W E27	 NAV 70 W E27	 HCI-TT 70 W E27	 DULUX D 26 W G24d-3	 Bulb 60 W/220 V E27	Carton (mm/pcs) 410 x 240 x 240/ 1 430 x 240 x 240/ 1 K	-20 °C ≤ t _a ≤ +40 °C t: -20 °C ≤ t _a ≤ +50 °C F: -50 °C ≤ t _a ≤ +40 °C

-20 °C ≤ t_a ≤ +40 °C

Types without guard	Types with guard	Recommended light source	Temper. class	T _{max.surf.} (°C)	Weight (kg)	Voltage (V/Hz)	Cable gland	Blinding	
								screw	plug
511 37 02	511 37 02 K	Halogen bulb Philips EcoClassic	140	T4	101	8.0 / K: 8.5	M 25x1.5 HSK-K-Ex 9 - 16 mm No. 1.291.2501.51	M 25x1.5 V-Ex No. 1.297.2501.50	M 25x1.5 HSK-V-Ex No. 1.296.2101.11
		Halogen bulb Philips EcoClassic	105	T5	90				
		Halogen bulb Philips EcoClassic	70	T6	77				
		Compact fluor. lamp Osram Dulux EL Longlife	23	T6	59				
		Compact fluor. lamp Philips Master PL Electronic	23	T6	63				
		Compact fluor. lamp Philips Master PL Electronic Globe	23	T6	58				
		Bulb CLAS	200	T4	104				
		Bulb CLAS	150	T5	92				
		Bulb CLAS	60-100	T6	80				
		Mixed-light lamp HWL	160	T5	90				
541 33 03	541 33 03 K	HP mercury vapour lamp HQL	80	T4	95	8.5 / K: 9.0			
		HP sodium disch. lamp NAV-E 50/I	50	T4	81				
541 33 04	541 33 03 K	HP mercury vapour lamp HQL	125	T4	121	8.0 / K: 8.5			
		HP sodium disch. lamp NAV-E	110	T4	99				
541 33 06	541 33 06 K	HP sodium disch. lamp NAV	70	T4	86	8.0 / K: 8.5			
		HP metal halide lamp HCI-TT	70	T4	80				
581 04 02	581 04 02 K	Compact fluor. lamp DULUX D	26	T6	60	8.0 / K: 8.5			
511 37 02 S	511 37 02 KS	Bulb CLAS	100	T5	81				

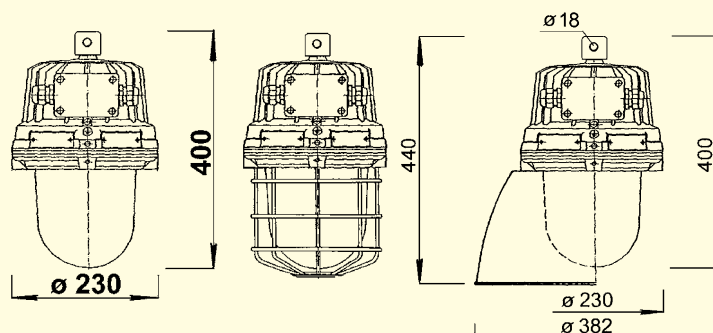
-20 °C ≤ t_a ≤ +50 °C

Types without guard	Types with guard	Recommended light source	Temper. class	T _{max.surf.} (°C)	Weight (kg)	Voltage (V/Hz)	Cable gland	Blinding	
								screw	plug
511 37 02 t	511 37 02 Kt	Halogen bulb Philips EcoClassic	140	T4	111	8.0 / K: 8.5	M 25x1.5 HSK-K-Ex 9 - 16 mm No. 1.291.2501.51	M 25x1.5 V-Ex No. 1.297.2501.50	M 25x1.5 HSK-V-Ex No. 1.296.2101.11
		Halogen bulb Philips EcoClassic	105	T4	100				
		Halogen bulb Philips EcoClassic	70	T5	87				
		Compact fluor. lamp Osram Dulux EL Longlife	23	T6	69				
		Compact fluor. lamp Philips Master PL Electronic	23	T6	73				
		Compact fluor. lamp Philips Master PL Electronic Globe	23	T6	68				
		Bulb CLAS	200	T4	114				
		Bulb CLAS	150	T4	102				
		Bulb CLAS	60-100	T5	90				
		Mixed-light lamp HWL	160	T4	100				
541 33 03 t	541 33 03 Kt	HP mercury vapour lamp HQL	80	T4	105	8.5 / K: 9.0			
		HP sodium disch. lamp NAV-E 50/I	50	T4	91				
541 33 04 t	541 33 04 Kt	HP mercury vapour lamp HQL	125	T3	131	8.5 / K: 9.0			
		HP sodium disch. lamp NAV-E	110	T4	109				
581 04 02 t	581 04 02 Kt	Compact fluor. lamp DULUX D	26	T6	70				

-50 °C ≤ t_a ≤ +40 °C

II 2G Ex de IIB T4 - T6 Gb other Ex subgroup (B) for gas

Types without guard	Types with guard	Recommended light source	Temper. class	T _{max.surf.} (°C)	Weight (kg)	Voltage (V/Hz)	Cable gland	Blinding	
								screw	plug
511 37 02 F	511 37 02 KF	Halogen bulb Philips EcoClassic	140	T4	101	8.0 / K: 8.5	M 25x1.5 HSK-M-Ex 10 - 16 mm No. 1.640.2500.51	M 25x1.5 V-Ms-VMQ-Ex No. 1.199.2500.50	
		Halogen bulb Philips EcoClassic	105	T5	90				
		Halogen bulb Philips EcoClassic	70	T6	77				
		Compact fluor. lamp Osram Dulux EL Longlife	23	T6	59				
		Compact fluor. lamp Philips Master PL Electronic	23	T6	63				
		Compact fluor. lamp Philips Master PL Electronic Globe	23	T6	58				
		Bulb CLAS	200	T4	104				
		Bulb CLAS	150	T5	92				
		Bulb CLAS	60-100	T6	80				
		Mixed-light lamp HWL	160	T5	90				
541 33 04 F	541 33 04 KF	HP mercury vapour lamp HQL	125	T4	121	8.5 / K: 9.0			
		HP sodium disch. lamp NAV-E	110	T4	99				





Use: For illumination of industrial spaces (indoor, under cover and outdoor), other than mines. See specification.

Technical description: Luminaire consists of body, basic plate and flange with protective glass. Body and flange are castings from AlSi alloy. Steel hinge with eyes \varnothing 18 mm is fixed on the upper part of the body. Connecting area (increased safety „e“) with connecting clamps and 2 cable glands HSK-K-Ex M25x1.5 for cables \varnothing 9 - 16 mm (HSK-M-Ex for cables 10 - 16 mm for versions F) is placed on the side of the body. This area is covered with cover and sealed with silicon. Steel basic plate with electric parts and reflector is fixed in the body. Flange with protective glass is screwed into the body and secured with securing screw against unlocking; the thread creates a rift of flameproof enclosure „d“. Protective cover from hardened glass is resistant against mechanical shock min. 7 J and is fixed in flange; the connection is filled with a putty (polyurethane glue). Steel mobile hinge is fixed on the flange and enables to hang up the flange under body during mounting or exchanging light source. AlSi parts of luminaire are treated with polyester powder paint; steel parts are galvanized and chromated. Max. section of connecting conductors 4 mm². Three-pole connecting terminal block enables interchanging 2 phases (4-core cable). Luminaire is equipped with 2 inner and 1 outer earthing clamps. Luminaire is designed as through-way one. When it is used as the end piece, there is necessary to replace one cable gland with blind screw V-Ex or to blind one unused gland with blind plug HSK-V-Ex (versions F: one cable gland must be replaced with blinding screw V-Ms-VMQ-Ex). Blinding parts are not attached - delivered optionally on order only. Versions K are equipped with protective guard from steel wire. All types can be equipped with lampshade (optionally on order only). Packing carton is filled with polyurethane foam Instapak.

Accessories (on order): lampshade type 154.5041/02, blinding plug M25x1.5 type HSK-V-Ex, blinding screw M25x1.5 type V-Ex (or V-Ms-VMQ-Ex for versions F), protective guard type 1-99.5856, wrench M 205x2 type 3-99.6159, ballast apparatus BOX 1 (page 15) for HP mercury and sodium lamps.

Spare parts (on order): flange with glass type 2-99.5862/1 (for basic versions, versions K, t, Kt) or type 2-99.5862F/1 (for versions F and KF), cable gland HSK-K-Ex (HSK-M-Ex for versions F and KF).

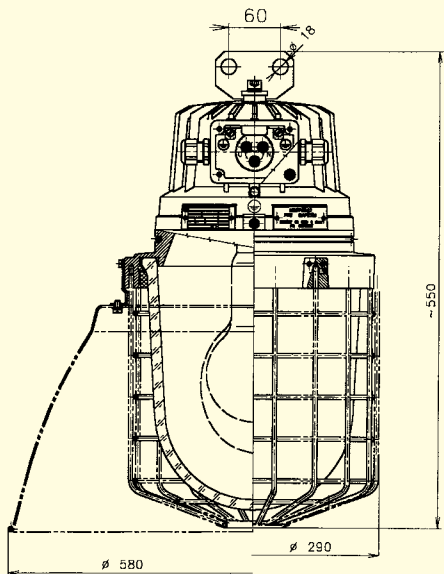
NOTE! Ballast box 205.1 can be used with type 511 38 02 (or 511 38 02 K) in ambient temperature $-20^{\circ}\text{C} \leq t_a \leq +40^{\circ}\text{C}$ only.

-20 °C ≤ t _a ≤ +40 °C													
Type without guard	Type with guard	Recommended light source			Temper. class	T _{max. surf.} (°C)	Ballast box	Weight (kg)	Cable gland	Blinding			
										screw	plug		
511 38 02	511 38 02 K	Bulb	SPC.A.T CL	500	T4	115	-	12.0 / K: 14.0	M 25x1.5	M 25x1.5	M 25x1.5		
		Bulb	SPC.A.T CL	300		95			HSK-K-Ex			V-Ex	HSK-V-Ex
		Mixed-light lamp	HWL	500	T3	150			205.0	9 - 16 mm	No.	No.	No.
		HP mercury vapour lamp	HQL	250	T4	105							
		HP sodium disch. lamp	NAV-E	210	T4	100							
		HP mercury vapour lamp	HQL	400	T3	140							
HP sodium disch. lamp	NAV-E	350	T4	120	205.1	1.291.2501.51	1.297.2501.50	1.296.2101.11					

-20 °C ≤ t _a ≤ +50 °C													
Type without guard	Type with guard	Recommended light source			Temper. class	T _{max. surf.} (°C)	Ballast box	Weight (kg)	Cable gland	Blinding			
										screw	plug		
511 38 02 t	511 38 02 Kt	Bulb	SPC.A.T CL	500	T4	125	-	12.0 / K: 14.0	M 25x1.5	M 25x1.5	M 25x1.5		
		Bulb	SPC.A.T CL	300		105			HSK-K-Ex			V-Ex	HSK-V-Ex
		HP mercury vapour lamp	HQL	250	T4	115			205.0 t	9 - 16 mm	No.	No.	No.
		HP sodium disch. lamp	NAV-E	210		110							

-50 °C ≤ t _a ≤ +40 °C											
Type without guard	Type with guard	Recommended light source			Temper. class	T _{max. surf.} (°C)	Ballast box	Weight (kg)	Cable gland	Blinding	
										screw	plug
511 38 02 F	511 38 02 KF	Bulb	SPC.A.T CL	500	T4	115	-	12.0 / K: 14.0	M 25x1.5	M 25x1.5	-
		Bulb	SPC.A.T CL	300		95			HSK-M-Ex		
		HP mercury vap. lamp	DRL	250	T4	105			205.0 F	10 - 16 mm	No.
									1.640.2500.51	1.199.2500.50	

ČSN EN 60598-1 60598-2-1	ČSN EN 60079-0,1 60079-7	ČSN EN 61241-0,1	ČSN EN 33 2000-3 321.4 AD5	321.5 AE6	321.6 AF1, AF2, AF3	321.7.1 AG2	321.7.2 AH2	BE3N1: ČSN EN 61241-14 (Zone 21, 22) BE3N2: ČSN EN 60079-14 (Zone 1, Zone 2) BE3N3: ČSN EN 33 2340 (V1, V2, V3)	
								230 V 50 Hz	
HWL 500 W E40	SPC.A.T CL 500 W E40	HQL 250 W E40	NAV-E 210 210 W E40	HQL 400 W E40	NAV-E 350 350 W E40	DRL 250 W E40	Carton (mm/pcs) 560 x 350 x 300 / 1	-20 °C ≤ t _a ≤ +40 °C t: -20 °C ≤ t _a ≤ +50 °C F: -50 °C ≤ t _a ≤ +40 °C	



Ballast apparatus BOX 1

II 2GD Ex de tD IIC T4 T_{max. surf.}

IP 65

Use: For power supplying flameproof luminaires with HP lamps (for example: MINEX II - page 11 or SIRIUS – page 14), installed in industrial spaces (indoor, under shelter and outdoor), other than mines. See specification.

Technical description: Body, cover, lid and cable glands are made from AlSi alloy and treated with polyester powder paint. Electric parts are fixed in the body. Connecting area is designed for 3-phase distribution. Box is equipped with 2 inner earthing clamps and 1 outer clamp serving for conductive connection. Max. section of connecting conductors 4 mm². Box is equipped with 3 cable glands for cable ϕ 10 – 16 mm. Box is made as through-way one, when used as the end piece there is necessary to use blinding plug (optionally on order only). Suspension with eye ϕ 20 mm is from zinc-coated steel sheet.

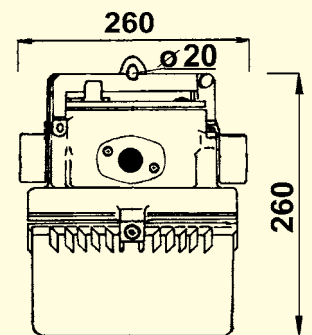
Accessories (on order): blinding plug type 547.2540/1, construction spanner 404 (for M12).



-20 °C ≤ t _a ≤ +40 °C					
Types	For recommended light source		Temper. class	T _{max. surf.} (°C)	Weight (kg)
205.0	HP mercury vap. lamp	HQL 250	T4	61	9.5
	HP sodium disch. lamp	NAV-E 210			
205.1	HP mercury vap. lamp	HQL 400		63	11.5
	HP sodium disch. lamp	NAV-E 350			

-20 °C ≤ t _a ≤ +50 °C					
Type	For recommended light source		Temper. class	T _{max. surf.} (°C)	Weight (kg)
205.0 t	HP mercury vap. lamp	HQL 250	T4	82	9.5
	HP sodium disch. lamp	NAV-E 210			

-50 °C ≤ t _a ≤ +40 °C					
Type	For recommended light source		Temper. class	T _{max. surf.} (°C)	Weight (kg)
205.0 F	HP mercury vap. lamp	DRL 250	T4	63	9.5



547.2540/1

404 - M12



ČSN EN 60079-0,1 60079-7	ČSN EN 61241-0,1	ČSN EN 33 2000-3					BE3N1: ČSN EN 61241-14 (Zone 21, 22) BE3N2: ČSN EN 60079-14 (Zone 1, Zone 2) BE3N3: ČSN EN 33 2340 (V1, V2, V3)			
		321.4 AD5	321.5 AE6	321.6 AF1, AF2, AF3	321.7.1 AG2	321.7.2 AH2				
						230 V 50 Hz		Carton (mm/ pcs) 355 x 240 x 240/ 1	-20 °C ≤ t _a ≤ +40 °C t: -20 °C ≤ t _a ≤ +50 °C F: -50 °C ≤ t _a ≤ +40 °C	



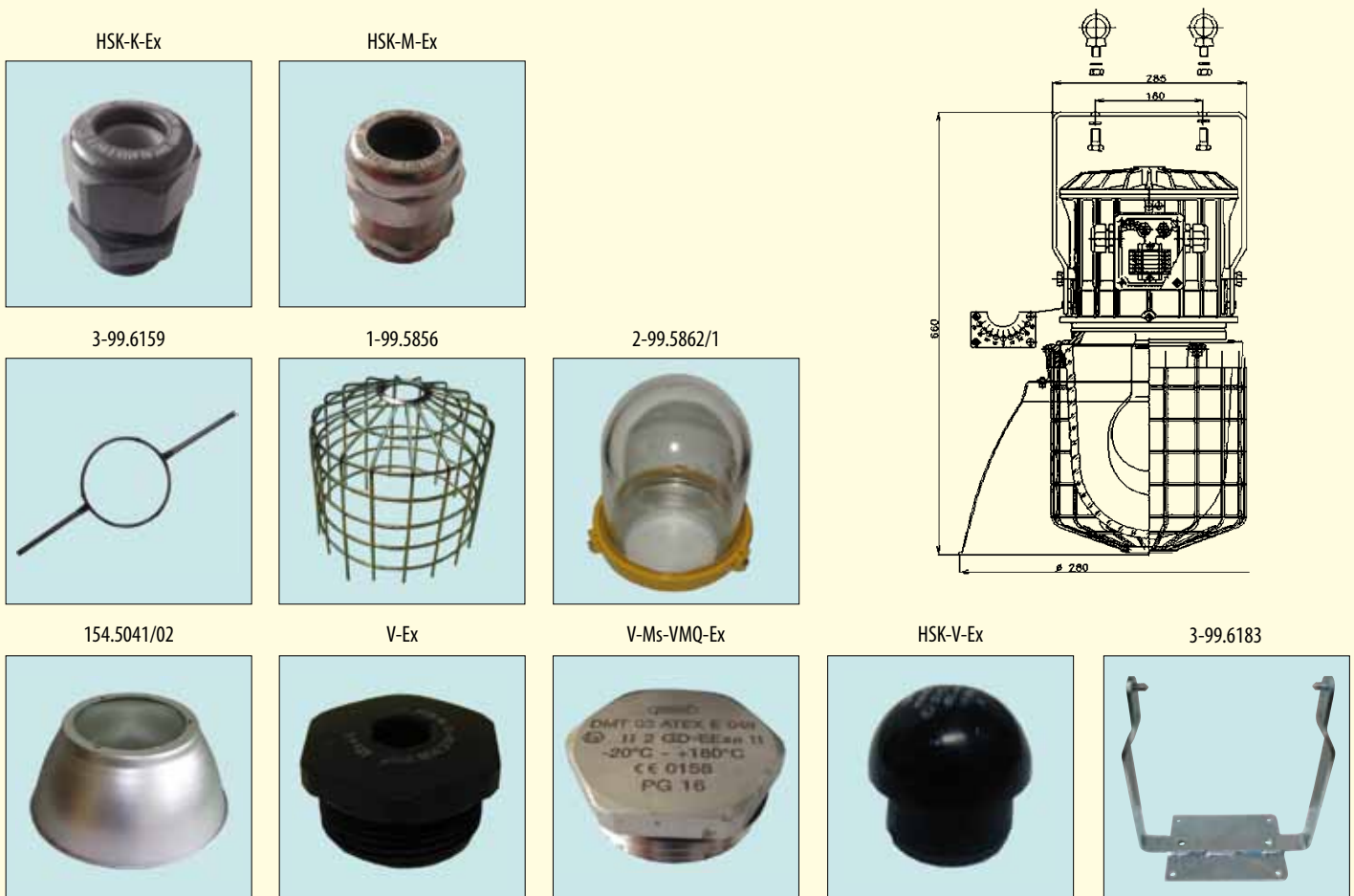
Use: For illumination of industrial spaces (indoor, under shelter and outdoor), other than mines. See specification.

Technical description: Luminaire consists of body, cover, basic plate and flange with protective glass. Body, cover and flange are castings from AlSi alloy. Latching steel hinge with eyes $\varnothing 12.5$ mm is fixed on the body and enables stopping luminaire in the different positions. Connecting area (increased safety „e“) with connecting clamps and 2 cable glands HSK-K-Ex M20x1.5 for cables $\varnothing 6.5 - 12$ mm (versions F: HSK-M-Ex for cable $\varnothing 6 - 12$ mm) is placed on the side of the body. This area is covered with cover and sealed with silicon. Steel basic plate with electric parts and reflector is fixed in the body. Flange with protective glass is screwed into the body and secured with securing screw against unlocking; the thread creates a rift of flameproof enclosure „d“. Protective translucent cover from hardened glass is resistant against mechanical shock min. 7 J and is fixed in the flange; connection is filled with a putty (polyurethane glue). Steel mobile hinge is fixed to the flange and enables to hang up the flange under body during mounting or exchanging the light source. Parts of luminaire are treated with polyester powder paint; steel parts are galvanized and chromated. Max. section of connecting conductors 4 mm². Luminaire is equipped with 2 inner and 1 outer earthing clamps for conductive connection. Luminaire is constructed as through-way one for interchanging 3 phases (5-core cable). When it is used as the end piece there is necessary to replace one cable gland with blinding screw V-Ex (versions F: blinding screw V-Ms-VMQ-Ex) or to blind one unused gland with blinding plug HSK-V-Ex. Blinding parts are delivered optionally on order only. Versions K are equipped with protective guard from steel wire. All types can be equipped with lampshade (optionally on order only). Packing carton is filled with polyurethane foam Instapak.

On order: Version with holder 3-99.6183 for immovable fixing to wall.

Accessories (on order): lampshade type 154.5041/02, blinding plug M20x1.5 type HSK-V-Ex, blinding screw M20x1.5 type V-Ex (or V-MS-VMQ-Ex for versions Ft and K Ft), protective guard type 1-99.5865, wrench M 205x2 type 3-99.6159.

Spare parts (on order): flange with glass type 2-99.5862/1 (for standard versions and versions t and Kt), type 3-99.5862F/1 (for versions Ft and K Ft), cable gland HSK-K-Ex (HSK-M-Ex for versions Ft and K Ft).



$-20^{\circ}\text{C} \leq t_a \leq +40^{\circ}\text{C}$

Types without guard	Types with guard	Recommended light source				Temper. class	T _{max. surf.} (°C)	Weight (kg)	Cable gland	Blinding	
										screw	plug
541 38 03	541 38 03 K	HP mercury vapour lamp HP sodium disch. lamp	HQL 250 NAV-E 210	T5	87	26.0 / K: 27.5 27.0 / K: 28.5	M 20x1.5 HSK-K-Ex 6.5 - 12 mm No. 1.291.2001.50	M 20x1.5 V-Ex No. 1.297.2001.50	M 20x1.5 HSK-V-Ex No. 1.296.1301.11		
541 38 04	541 38 04 K	HP mercury vapour lamp HP sodium disch. lamp	HQL 400 NAV-E 350	T3	135	27.0 / K: 28.5					
541 38 05	541 38 05 K	HP metal halide lamp HP sodium disch. lamp	HQI-E 250 NAV-E 250	T4	105	26.0 / K: 27.5					
541 38 06	541 38 06 K	HP sodium disch. lamp	NAV-E 400	T3	135	27.0 / K: 28.5					
541 38 07	541 38 07 K	HP metal halide lamp	HQI-E 400	T3	135	27.0 / K: 28.5					
541 38 08	541 38 08 K	HP metal halide lamp HP sodium disch. lamp	HCI-TT 150 NAV-E 150	T6	79	25.0 / K: 26.5					

$-20^{\circ}\text{C} \leq t_a \leq +55^{\circ}\text{C}$

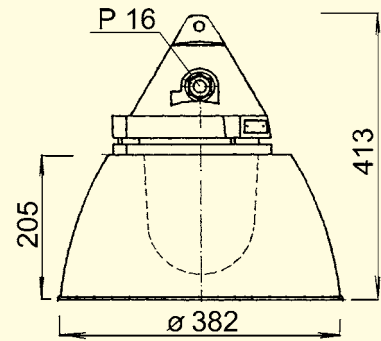
Types without guard	Types with guard	Recommended light source				Temper. class	T _{max. surf.} (°C)	Weight (kg)	Cable gland	Blinding	
										screw	plug
541 38 03 t	541 38 03 Kt	HP mercury vapour lamp HP sodium disch. lamp	HQL 250 NAV-E 210	T4	102	26.0 / K: 27.5 27.0 / K: 28.5	M 20x1.5 HSK-K-Ex 6.5 - 12 mm No. 1.291.2001.50	M 20x1.5 V-Ex No. 1.297.2001.50	M 20x1.5 HSK-V-Ex No. 1.296.1301.11		
541 38 04 t	541 38 04 Kt	HP mercury vapour lamp HP sodium disch. lamp	HQL 400 NAV-E 350	T2	150	27.0 / K: 28.5					
541 38 05 t	541 38 05 Kt	HP metal halide lamp HP sodium disch. lamp	HQI-E 250 NAV-E 250	T3	120	26.0 / K: 27.5					
541 38 06 t	541 38 06 Kt	HP sodium disch. lamp	NAV-E 400	T2	150	27.0 / K: 28.5					
541 38 07 t	541 38 07 Kt	HP metal halide lamp	HQI-E 400	T2	150	27.0 / K: 28.5					
541 38 08 t	541 38 08 Kt	HP metal halide lamp HP sodium disch. lamp	HCI-TT 150 NAV-E 150	T5	94	25.0 / K: 26.5					

$-50^{\circ}\text{C} \leq t_a \leq +55^{\circ}\text{C}$

Types without guard	Types with guard	Recommended light source				Temper. class	T _{max. surf.} (°C)	Weight (kg)	Cable gland	Blinding	
										screw	plug
541 38 05 Ft	541 38 05 Kft	HP sodium disch. lamp HP metal halide lamp	NAV-E 250 HQI-E 250	T3	120	26.0 / K: 27.5	M 20x1.5 HSK-M-Ex 6 - 12 mm No. 1.640.2000.50	M 20x1.5 V-Ms-VMQ-Ex No. 1.199.2000.50	-		
541 38 06 Ft	541 38 06 Kft	HP sodium disch. lamp	NAV-E 400	T2	150	27.0 / K: 28.5					
541 38 07 Ft	541 38 07 Kft	HP metal halide lamp	HQI-E 400	T2	150	27.0 / K: 28.5					

ČSN EN 60598-1 60598-2-1	ČSN EN 60079-0,1 60079-7	ČSN EN 61241-0,1	ČSN EN 33 2000-3 321.4 AD5 321.5 AE6 321.6 AF1, AF2, AF3 321.7.1 AG2 321.7.2 AH2					BE3N1: ČSN EN 61241-14 (Zone 21, 22) BE3N2: ČSN EN 60079-14 (Zone 1, Zone 2) BE3N3: ČSN EN 33 2340 (V1, V2, V3)	
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										230 V 50 Hz		Carton (mm/pcs) 800 x 400 x 400/ 1	$-20^{\circ}\text{C} \leq t_a \leq +40^{\circ}\text{C}$ t: $-20^{\circ}\text{C} \leq t_a \leq +55^{\circ}\text{C}$ Ft: $-50^{\circ}\text{C} \leq t_a \leq +55^{\circ}\text{C}$
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Use: For illumination of industrial spaces (indoor, under shelter and outdoor), other than mines. See specification.

Technical description: Body is from AlSi alloy treated with polyester powder paint. Terminal block is fixed in the body. Connecting area is covered with galvanized steel sheet with lampholder. Flange with protective glass and shaped rubber sealing is fixed to the body with 3 screws. Max. section of connecting conductors 6 mm². Luminaire is equipped with 2 inner earthing clamps and 1 outer clamps for conductive connection. Further, the luminaire is equipped with 2 cable glands HSK-K-Ex PG 16x10 for connecting and sealing cable ø 7 - 12 mm. Luminaire is made as through-way one for interchanging 2 phases (4-core cable), when used as the end piece, there is necessary to substitute one cable gland with blinding screw V-Ex or to blind one unused cable gland with blinding plug HSK-V-Ex (both parts on order).

On order: Types 511 14 07 n, 511 14 07 nt are constructed as the through-way one for 3 phases (5-core cable) and equipped with screw-free terminal block.

Accessories (on order): ballast apparatus BOX 2 (page 22) for use with HP mercury vapour lamp, lampshade 254.5021/01, holder 4-99.7995 for fixing to ceiling, springy suspension 2-99.5550, blinding screw V-Ex PG 16x10, blinding plug HSK-V-Ex PG 16x10.

Spare parts (on order): protective glass 332.5018, cable glands HSK-K-Ex PG 16x10.

-20 °C ≤ t_a ≤ +40 °C

Types	Recommended light source		Temper. class	T _{max. surf.} (°C)	Ballast box	Cable	Terminal block	Voltage (V/Hz)	Weight (kg)	Cable gland	Blinding		
											screw	plug	
511 14 07 n	Halogen bulb Philips	Eco Classic	140	108	-	4-core (5-core)	as standard (screw-free)	~ 230 / 50	5.0	PG 16 HSK-K-Ex 7 – 12 mm No. 1.291.1601.15	PG 16	PG 16	
	Bulb	CLAS	200	T4							104	V-Ex	HSK-V-Ex
	Mixed-light lamp	HWL	160								99		
	HP mercury lamp	HQL	80	T5	95						604.6 ntB	No.	No.
	HP mercury lamp	HQL	125	T4	121						604.6 ntA	1.297.1601.11	1.296.1601.11
Comp. fluor. lamp	DULUX EL	23	T6	59	-								

-20 °C ≤ t_a ≤ +50 °C

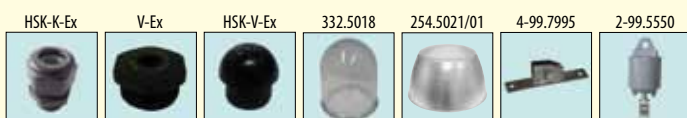
Types	Recommended light source		Temper. class	T _{max. surf.} (°C)	Ballast box	Cable	Terminal block	Voltage (V/Hz)	Weight (kg)	Cable gland	Blinding		
											screw	plug	
511 14 07 nt	Halogen bulb Philips	Eco Classic	140	118	-	4-core	as standard	~ 230 / 50	5.0	PG 16 HSK-K-Ex 7 – 12 mm No. 1.291.1601.15	PG 16	PG 16	
	Bulb	CLAS	200	T4							114	V-Ex	HSK-V-Ex
	Mixed-light lamp	HWL	160								109		
	HP mercury lamp	HQL	80	T4	105						604.6 ntB	No.	No.
	HP mercury lamp	HQL	125	T3	131						604.6 ntA	1.297.1601.11	1.296.1601.11
Comp. fluor. lamp	DULUX EL	23	T6	69	-								

-20 °C ≤ t_a ≤ +50 °C

Types	Recommended light source		Temper. class	T _{max. surf.} (°C)	Ballast box	Cable	Terminal block	Voltage (V/Hz)	Weight (kg)	Cable gland	Blinding	
											screw	plug
511 14 07 nSt	Bulb		100	T4	100	4-core	as standard	24 - 230 V (DC)	5.0		see data above	
	Comp. fluor. lamp	DULUX EL FACILITY	18	T6	69							

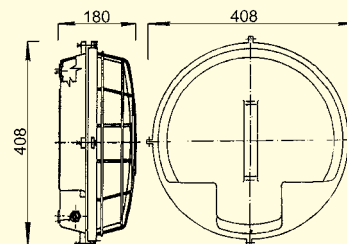
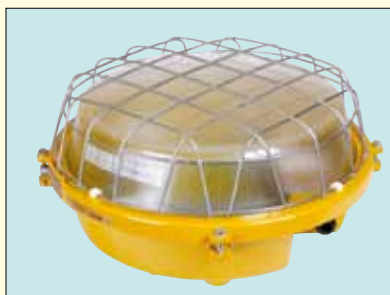
-20 °C ≤ t_a ≤ +55 °C

Types	Recommended light source		Temper. class	T _{max. surf.} (°C)	Ballast box	Cable	Terminal block	Voltage (V/Hz)	Weight (kg)	Cable gland	Blinding	
											screw	plug
511 14 07 nS	Bulb NARVA	AGM	60	T5	90	4-core	as standard	110 V (DC)	5.0		see data above	



CSN EN 60079-0 60079-31	CSN EN 60079-15	CSN EN 33 2000-3					BE3N1: CSN EN 61241-14 (Zone 21, 22) BE3N2: CSN EN 60079-14 (Zone 2) BE3N3: CSN EN 33 2340 (V1, V2, V3)			CE
321.4 AD5	321.5 AE6	321.6 AF1, AF2, AF3	321.7.1 AG2	321.7.2 AH2						

HWL 160 W E27	EcoClassic 140 W E27	CLAS 200 W E27	HQL 80 W E27	HQL 125 W E27	DULUX EL 23 W E27	DULUX EL FACILITY 18 W E27	Bulb 60 W/110 V E27	230 V 50 Hz	DC 24 - 230 V	DC 110 V	Carton (mm/ pcs) 355 x 240 x 240 / 1	n: -20 °C ≤ t _a ≤ +40 °C nSt, nt: -20 °C ≤ t _a ≤ +50 °C nS: -20 °C ≤ t _a ≤ +55 °C
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Use: For illumination of industrial spaces (indoor, under cover and outdoor), other than mines. See specification.

Technical description: Body and flange are made from AlSi alloy treated with polyester powder paint. Protective guard is made from galvanized steel wire and fixed to the flange with inserts from thermoplastic. Protective glass is fixed to the flange with steel clamps. Flange with glass is fixed to the body with the screws. Electric parts are fixed in the body. Connecting area is covered with steel sheet. Max. section of connecting conductors 6 mm². Luminaire is equipped with 2 inner earthing clamps and 1 outer clamps for conductive connection. Further, luminaire is equipped with 2 cable glands M 20x1.5 HSK-K-Ex and nuts GM-FS for connecting and sealing cable ø 6.5 - 12 mm. Luminaire is made as through-way one for 2 phases (4-core cable), when used as the end piece, there is necessary to substitute one cable gland with blinding screw V-Ex or to blind one unused cable gland with blinding plug HSK-V-Ex (both parts on order).

Type 511 33 02 nHt is equipped with 2 brassy cable glands M20x1.5 HSK-M-PVDF-Ex and nut GM-Ms for cable ø 6 - 12 mm.

Type 511 33 02 nF is equipped with 2 brassy cable glands M20x1.5 HSK-M-Ex and nut GM-Ms for cable ø 7 - 12 mm.

Accessories (on order): ballast apparatus BOX 2 (page 22) for use with HP mercury vapour lamps, blinding plug M 20x1.5 HSK-V-Ex, blinding screw M 20x1.5 V-Ex (for version nHt: screw V-Ms-FPM-Ex, for version nF: screw V-Ms-VMQ-Ex).

Spare parts (on order): protective guard 1-99.5984/1, protective glass type 232.5070, cable glands, nuts for cable glands (see below).

-20 °C ≤ t_a ≤ +40 °C

Type	Recommended light source			Temper. class	T _{max. surf.} (°C)	Ballast box	Weight (kg)	Cable gland	Nut of cable gland	Blinding	
										screw	plug
511 33 02 n	2x halogen bulb Philips EcoClassic	70	T5	87	-	6.0	M 20x1.5 HSK-K-Ex 6.5 - 12 mm No. 1.291.2001.50	M 20x1.5 GM-FS 6.5 - 12 mm No. 1.262.2001.50	M 20x1.5 V-Ex No. 1.297.2001.50	M 20x1.5 HSK-V-Ex No. 1.296.1301.11	
	2x halogen bulb Philips EcoClassic	105	T4	101							
	2x bulb CLAS	150	T4	106							
	1x mixed-light lamp HWL	160	T5	89							
	1x HP mercury lamp HQL	80	T6	68							604.6 ntB
	1x HP mercury lamp HQL	125	T6	79							604.6 ntA
2x compact fluor. lamp DULUX EL	23	T6	64	-							

-20 °C ≤ t_a ≤ +50 °C

Type	Recommended light source			Temper. class	T _{max. surf.} (°C)	Ballast box	Weight (kg)	Cable gland	Nut of cable gland	Blinding	
										screw	plug
511 33 02 nt	2x halogen bulb Philips EcoClassic	70	T5	97	-	6.0	M 20x1.5 HSK-K-Ex 6.5 - 12 mm No. 1.291.2001.50	M 20x1.5 GM-FS 6.5 - 12 mm No. 1.262.2001.50	M 20x1.5 V-Ex No. 1.297.2001.50	M 20x1.5 HSK-V-Ex No. 1.296.1301.11	
	2x halogen bulb Philips EcoClassic	105	T4	111							
	2 x bulb CLAS	150	T4	116							
	1x mixed-light lamp HWL	160	T4	99							
	1x HP mercury lamp HQL	80	T6	78							604.6 ntB
	1x HP mercury lamp HQL	125	T5	89							604.6 ntA
2 x compact fluor. lamp DULUX EL	23	T6	74	-							

-20 °C ≤ t_a ≤ +50 °C

Type	Recommended light source			Temper. class	T _{max. surf.} (°C)	Weight (kg)	Cable gland	Nut of cable gland	Blinding	
									screw	plug
511 33 02 nSt	2x bulb on 24 V (DC)	100	T4	106	6.0	M 20x1.5 HSK-K-Ex No. 1.291.2001.50	M 20x1.5 GM-FS No. 1.262.2001.50	M 20x1.5 V-Ex No. 1.297.2001.50	M 20x1.5 HSK-V-Ex No. 1.296.1301.11	
	2x compact fluor. lamp DULUX EL FACILITY	18	T6	74						

-20 °C ≤ t_a ≤ +70 °C

Type	Recommended light source			Temper. class	T _{max. surf.} (°C)	Weight (kg)	Cable gland	Nut of cable gland	Blinding screw	
									screw	plug
511 33 02 nHt	2x halogen bulb Philips EcoClassic	70	T4	117	6.0	M 20x1.5 HSK-M-PVDF-Ex No. 1.660.2016.51	M 20x1.5 GM-Ms No. 1.161.1600.01	M 20x1.5 V-Ex No. 1.198.2000.50	M 20x1.5 HSK-V-Ex No. 1.296.1301.11	
	2x bulb CLAS	100	T4	122						

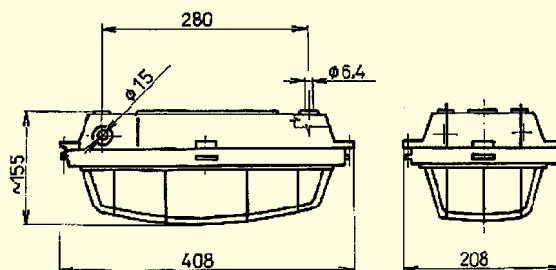
-50 °C ≤ t_a ≤ +40 °C

Type	Recommended light source			Temper. class	T _{max. surf.} (°C)	Weight (kg)	Cable gland	Nut of cable gland	Blinding screw	
									screw	plug
511 33 02 nF	2x halogen bulb Philips EcoClassic	105	T4	101	6.0	M 20x1.5 HSK-M-Ex 6.5 - 12 mm No. 1.640.2000.50	M 20x1.5 GM-Ms No. 1.161.1600.01	M 20x1.5 V-Ex No. 1.199.2000.50	M 20x1.5 HSK-V-Ex No. 1.296.1301.11	
	2x halogen bulb Philips EcoClassic	70	T5	87						
	2x bulb CLAS	150	T4	106						



ČSN EN 60598-1 60598-2-1	ČSN EN 60079-0,15 60079-31	ČSN EN 33 2000-3 321.4 AD5	321.5 AE6	321.6 AF1, AF2, AF3	321.7.1 AG2	321.7.2 AH2	BE3N1: ČSN EN 61241-14 (Zone 21, 22) BE3N2: ČSN EN 60079-14 (Zone 2) BE3N3: ČSN EN 33 2340 (V1, V2, V3)	
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	HWL 160 W E27	EcoClassic 105 W E27	EcoClassic 70 W E27	CLAS 150 W E27	HQL 80 W E27	HQL 125 W E27	DULUX EL FACILITY 18 W E27	DULUX EL 23 W E27	CLAS 100 W E27	DC 230 V	DC 24 - 230 V		Carton (mm/ pcs) 400 x 400 x 190 / 1	n: -20 °C ≤ t _a ≤ +40 °C nt, nSt: -20 °C ≤ t _a ≤ +50 °C nHt: -20 °C ≤ t _a ≤ +70 °C nF: -50 °C ≤ t _a ≤ +40 °C
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Use: For illumination of industrial spaces (indoor, under cover and outdoor), other than mines. See specification.

Technical description: Body and flange are made from AlSi alloy treated with polyester powder paint. Protective guard is made from galvanized steel wire and fixed to the flange with inserts from thermoplastic. Protective glass is fixed to the flange with steel clamps. Flange with glass is fixed to the body with the screws. Electric parts are fixed in the body. Connecting area is covered with steel sheet. Max. section of connecting conductors 6 mm². Luminaire is equipped with 2 inner earthing clamps and 1 outer clamps for conductive connection. Further, luminaire is equipped with 2 cable glands M 20x1.5 HSK-K-Ex and nuts GM-FS for connecting and sealing cable \varnothing 6.5 - 12 mm. Luminaire is made as through-way one for 2 phases (4-core cable), when used as the end piece, there is necessary to substitute one cable gland with blinding screw V-Ex or to blind one unused cable gland with blinding plug HSK-V-Ex (both parts on order). Type 511 32 01 nF is equipped with 2 brassy cable glands M20x1.5 HSK-M-Ex and nut GM-Ms for cable \varnothing 7 - 12 mm.

Accessories (on order): ballast apparatus BOX 2 (page 22) for use with HP mercury vapour lamps, blinding plug M 20x1.5 HSK-V-Ex, blinding screw M 20x1.5 V-Ex (for version nF: screw V-Ms-VMQ-Ex).

Spare parts (on order): protective guard 1-99.5992/1, protective glass type 132.5069, cable glands, nuts for cable glands (see below).

NOTE: Emergency luminaire - see SAFELUX or MULTISAFE (page 21).

$-20^{\circ}\text{C} \leq t_s \leq +40^{\circ}\text{C}$

Types	Recommended light source		Temper. class	T _{max. surf.} (°C)	Ballast box	Voltage (V/Hz)	Weight (kg)	Cable gland	Nut of cable gland	Blinding		
										screw	plug	
511 32 01 n	Halogen bulb Philips EcoClassic	140	T4	108	-	~ 230/50	4.0	M 20x1.5 HSK-K-Ex 6.5 - 12 mm	M 20x1.5 GM-FS 6.5 - 12 mm	M 20x1.5 V-Ex	M 20x1.5 HSK-V-Ex	
	Bulb CLAS	200	T4	128								
	Mixed-light lamp HWL	160	T4	118								
	HP mercury lamp HQL	80	T5	83								604.6 ntB
	HP mercury lamp HQL	125	T5	89								604.6 nTA
581 01 02 n	Compact fluor. lamp DULUX EL	23	T6	58	-	~ 230/50 = 220	No. 1.291.2001.50	No. 1.262.2001.50	No. 1.297.2001.50	No. 1.296.1301.11		
581 01 03 n	2 x compact fluor. lamp DULUX S	7/11	T6	65								
	Compact fluor. lamp DULUX F	36	T6	61								

$-20^{\circ}\text{C} \leq t_s \leq +50^{\circ}\text{C}$

Types	Recommended light source		Temper. class	T _{max. surf.} (°C)	Ballast box	Voltage (V/Hz)	Weight (kg)	Cable gland	Nut of cable gland	Blinding		
										screw	plug	
511 32 01 nt	Halogen bulb Philips EcoClassic	140	T4	118	-	~230/50	4.0	M 20x1.5 HSK-K-Ex 6.5 - 12 mm	M 20x1.5 GM-FS 6.5 - 12 mm	M 20x1.5 V-Ex	M 20x1.5 HSK-V-Ex	
	Mixed-light lamp HWL	160	T4	128								
	HP mercury lamp HQL	80	T5	93								604.6 ntB
	HP mercury lamp HQL	125	T4	99								604.6 nTA
	Compact fluor. lamp DULUX EL	23	T6	68								
581 01 02 nt	2 x compact fluor. lamp DULUX S	7/11	T6	75	-	~ 230/50 = 220	No. 1.291.2001.50	No. 1.262.2001.50	No. 1.297.2001.50	No. 1.296.1301.11		
581 01 03 nt	Compact fluor. lamp DULUX F	36	T6	71								

$-20^{\circ}\text{C} \leq t_s \leq +50^{\circ}\text{C}$

Type	Recommended light source		Temper. class	T _{max. surf.} (°C)	Voltage (V/Hz)	Weight (kg)	Cable gland	Nut of cable gland	Blinding	
									screw	plug
511 32 01 nSt	Bulb for DC	100	T4	108	=24-230	4.0	M 20x1.5 HSK-K-Ex No. 1.291.2001.50	M 20x1.5 GM-FS No. 262.2001.50	M 20x1.5 V-Ex No. 1.297.2001.50	M 20x1.5 HSK-V-Ex No. 1.296.1301.11
	Compact fluor. lamp DULUX EL FACILITY	18	T6	68	=230					

$-50^{\circ}\text{C} \leq t_s \leq +40^{\circ}\text{C}$

Type	Recommended light source		Temper. class	T _{max. surf.} (°C)	Ballast box	Voltage (V/Hz)	Weight (kg)	Cable gland	Nut of cable gland	Blinding screw
511 32 01 nF	Halogen bulb Philips EcoClassic	140	T4	108	-	~230/50	4.0	M 20x1.5 HSK-M-Ex 6.5 - 12 mm	M 20 x 1,5 GM-Ms	M 20x1.5 V-Ms-VMQ-Ex
	Bulb CLAS	200	T4	128	-					



HWL 160W E27		ČSN EN 60598-1 60598-2-1	ČSN EN 60079-0,15 60079-31	ČSN EN 33 2000-3 321.4 AD5 321.5 AE6 321.6 AF1, AF2, AF3 321.7.1 AG2 321.7.2 AH2					BE3N1: ČSN EN 61241-14 (Zone 21, 22) BE3N2: ČSN EN 60079-14 (Zone 2) BE3N3: ČSN EN 33 2340 (V1, V2, V3)				
EcoClassic 140W E27	CLAS 200W E27	HQL 80W E27	HQL 125W E27	DULUX EL 23W E27	Bulb 60W/110V E27	DULUX S 7/11W G23	DULUX F 36W 2G10	230 V 50 Hz	DC 220 V	DC 24 - 230 V		Carton (mm/ pcs) 410 x 460 x 170 / 2	n: -20 °C ≤ t _a ≤ +40 °C nt: -20 °C ≤ t _a ≤ +50 °C nSt: -20 °C ≤ t _a ≤ +50 °C nF: -50 °C ≤ t _a ≤ +40 °C

SAFELUX, MULTISAFE

II 3G Ex nR II T6
II 3D Ex tD A22 T 53 °C

emergency

IP 65



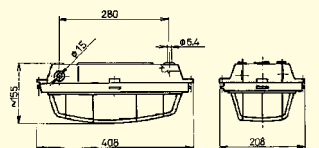
Use: For permanent (maintained, M) or emergency (non-maintained, NM) illumination of industrial spaces (indoor, under shelter and outdoor), other than mines. See specification.

Technical description: Body and flange are made from AISi alloy treated with polyester powder paint. Protective guard is made from galvanized steel wire and fixed to the flange with inserts from thermoplastic. Protective glass is fixed to the flange with steel clamps. Flange with glass is fixed to the body with the screws. Electric parts are fixed in the body. Connecting area is covered with steel sheet. Max. section of connecting conductors 6 mm². Luminaire is equipped with 2 inner earthing clamps and 1 outer clamps for conductive connection. Further, luminaire is equipped with 2 cable glands M 20x1.5 HSK-K-Ex and nuts GM-FS for connecting and sealing cable ø 6.5 - 12 mm. Luminaire is made as through-way one for 2 phases (4-core cable), when used as the end piece, there is necessary to substitute one cable gland with blinding screw V-Ex or to blind one unused cable gland with blinding plug HSK-V-Ex (both parts on order).



Accessories (on order): glass with pictograms according request.

Spare parts (on order): protective guard 1-99.5992/1, protective glass type 132.5069, cable gland M 20x1.5 HSK-K-Ex (No. 1.291.2001.50), nuts for cable glands GM-FS (No. 1.262.2001.50), blinding screw V-Ex (No. 1.297.2001.50), blinding plug HSK-V-Ex (No. 1.296.1301.11).



Types	Recommended light source	Temper. class	T _{max. surf.} (°C)	Weight (kg)	Version	Autonomy	Accumulator
SAFELUX	1 x compact fluor. lamp DULUX S 9	T6	53	4.6	NM	2 h	Ni-CD 3.6V / 2.5 Ah
MULTISAFE				4.9	M/NM		

M – maintained (permanent illum., incl. emergency)
NM – non-maintained (emergency illum. only)



ČSN EN 60598-1 60598-2-1	ČSN EN 60079-0 60079-15	ČSN EN 33 2000-3 321.4 AD5 321.5 AE6 321.6 AF1, AF2, AF3 321.7.1 AG2 321.7.2 AH2					BE3N1: ČSN EN 61241-14 (Zone 21, 22) BE3N2: ČSN EN 60079-14 (Zone 2) BE3N3: ČSN EN 33 2340 (V1, V2, V3)	
	230 V 50 Hz		Carton (mm/pcs) 430 x 240 x 180 / 1	0 °C ≤ t _a ≤ +40 °C				



Use: For illumination of industrial spaces (indoor, under shelter and outdoor), other than mines. See specification.

Technical description: Body and basic plate are made from steel sheet and treated with polyester powder paint. Basic plate with electric parts is fixed to the body. Cover of light active part is from PC. Sealing from microporous rubber is put in the groove of the seating face. Cover is fixed to the body with 10 stainless enclosures. Max. section of connecting conductors 2.5 mm². Luminaire is made as through-way one for 5-core cable. It is equipped with 2 cable glands PG13.5 for connecting cable ø 9-12 mm. Attached blinding washer can be used instead of the sealing plug of one cable gland in order to use the luminaire as the end piece.

Spare parts (on order): protective PC cover 142.5511/2, stainless enclosure 4-99.6188/1, cable gland PG 13.5, blinding washer 514.2572.

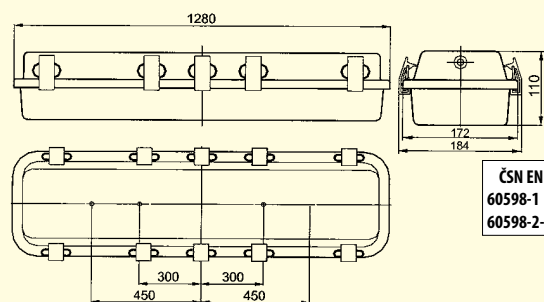


-20 °C ≤ t_a ≤ +60 °C

Types	Recommended light source	Weight (kg)	Ballast apparatus
531 31 05 nt	2x linear fluorescent lamps L 36	6.5	inductive
531 31 06 nt	1x linear fluorescent lamp L 36	6.0	
531 31 09 nt	3x linear fluorescent lamps L 36	7.0	

142.5511/2

4-99.6188/1



ČSN EN 60598-1
60598-2-1

ČSN EN 60079-15
50281-1-1

ČSN EN 33 2000-3
321.4 AD5 321.5 AE6 321.6 AF1, AF2, AF3 AG2 321.7.1 AG2 321.7.2 AH2

BE3N1: ČSN EN 61241-14 (Zone 21, 22)
BE3N2: ČSN EN 60079-14 (Zone 2)
BE3N3: ČSN EN 33 2340 (V1, V2, V3)



230 V
50 Hz



Carton (mm/psc)
1290 x 190 x 120/ 1

-20 °C ≤ t_a ≤ +60 °C

Ballast apparatus BOX 2

II 3GD Ex nR tD A22 II T6 T 70 °C

IP 65



Use: For power supplying flameproof luminaires with HP mercury lamps (for example SIMPLEX, BILUX, TRILUX – pages 18 - 21) installed in industrial spaces (indoor, under shelter and outdoor), other than mines. See specification.

Technical description: Body and lid are made from AlSi alloy and treated with polyester powder paint. Electric parts are fixed in the body. Connecting area is designed for 3-phase distribution. Max. section of connecting conductors 4 mm². Box is equipped with 2 inner earthing clamps and 1 outer clamp for conductive connection. Further, the box is equipped with 3 cable glands HSK-K-Ex PG 16x10 for cable ø 7 – 12 mm. Box is made as through-way one, when used as the end piece there is necessary to substitute one cable gland with blinding screw V-Ex or to blind one unused cable gland with blinding plug HSK-V-Ex (both parts on order only). Suspension with eye ø 25 mm is made from AlSi alloy. Holder on the bottom of the box is designed for suspension of luminaire with suspending eye (for example: SIMPLEX – page 18).

Accessories (on order): blinding screw V-Ex PG 16x10, blinding plug HSK-V-Ex PG 16x10.

Spare parts (on order): cable gland HSK-K-Ex PG 16x10.

-20 °C ≤ t_a ≤ +50 °C

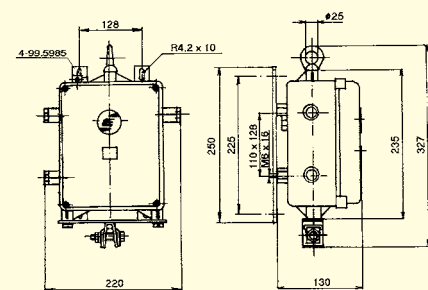
Types	For recommended light source		Temper. class	T _{max.surf.} (°C)	Weight (kg)	Cable gland	Blinding	
							screw	plug
604.6 ntA	HP mercury vapour lamp	HQL 125	T6	70	5.0	PG 16 HSK-K-Ex 7 - 12 mm No. 1.291.1601.15	PG 16 V-Ex	PG 16 HSK-V-Ex
604.6 ntB	HP mercury vapour lamp	HQL 80					No. 1.297.1601.11	No. 1.296.1601.11



HSK-K-Ex

HSK-V-Ex

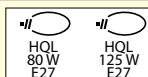
V-Ex



ČSN EN 60079-0
60079-15

ČSN EN 33 2000-3
321.4 AD5 321.5 AE6 321.6 AF1, AF2, AF3 AG2 321.7.1 AG2 321.7.2 AH2

BE3N1: ČSN EN 61241-14 (Zone 21, 22)
BE3N2: ČSN EN 60079-14 (Zone 2)
BE3N3: ČSN EN 33 2340 (V1, V2, V3)



230 V
50 Hz



Carton (mm/psc)
355 x 240 x 240/ 2

-20 °C ≤ t_a ≤ +50 °C

FARMER I

IP 54

Use: For illumination of industrial places (indoor, outdoor and under shelter).

Technical description: Body from steel sheet is treated with polyester powder paint. Lampholder with reflector from Al sheet are fixed to the body. Inorganic protective glass with rubber sealing and white plastic guard are fixed to the body by the help of 4 metal clips. According to individual type, the other parts of luminaire can be as follows: connecting box from AISi alloy; steel tube treated with powder paint; bracket from galvanized steel sheet. Max. section of connecting conductors 4 mm². Luminaire is made as through-way one and equipped with 2 cable glands. One cable gland is blinded in order to use luminaire as the end piece.

Accessories (on order): polycarbonate protective guard 182.2540, stainless clip 4-99.6180/01.

Spare parts (on order): protective glass cover 232.5068/1, protective guard 182.5005, metal clip 4-99.8470/01.

511 29 01
581 29 01



511 29 02

512 04 01
582 04 01

513 04 01
583 04 01

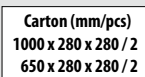
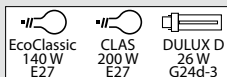
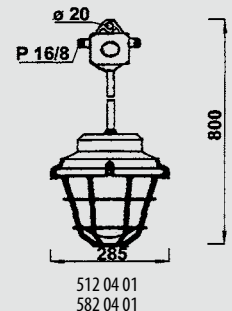
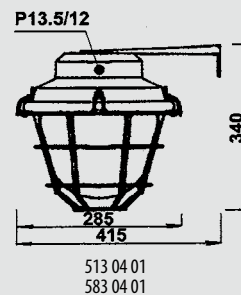
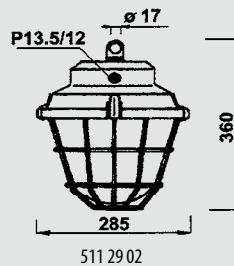
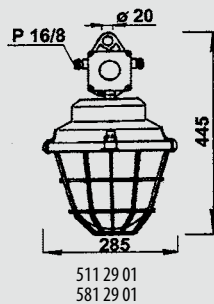
182.5005
182.2540

4-99.8470/01
4-99.6180/01

232.5068/1



Types	Recommended light source	Packing carton (mm)/pcs	Part of luminaire (see picture)	Cable glands	Connecting cable ø (mm)	Max. ambient temperature t _a (°C)	Weight (kg)
511 29 01	Bulb CLAS 200	650 x 290 x 290/2	connecting box	P16	6 - 9	60	4.2
511 29 02		650 x 290 x 290/ 2	holder	P13.5	11 - 13		
512 04 01		1000 x 290 x 290/ 2	tube and conn. box	P16	6 - 9		
513 04 01	Halogen bulb EcoClassic 140	650 x 290 x 290/ 2	bracket	P13.5	11 - 13	25	5.1
581 29 01		650 x 290 x 290/ 2	connecting box	P16	6 - 9		
582 04 01		1000 x 290 x 290/ 2	tube and conn. box	P16	6 - 9		
583 04 01	Comp. fluor. I. DULUX D 26	650 x 290 x 290/ 2	bracket	P13.5	11 - 13		



FARMER II

IP 54

Use: For illumination of industrial places (indoor, outdoor and under shelter).

Technical description: Body and ballast box are made from steel sheet treated with polyester powder paint. Lampholder with reflector from Al sheet are fixed to the body. Inorganic protective glass with rubber sealing and white plastic guard are fixed to the body by the help of 4 metal clips. According to individual type, the other parts of luminaire can be as follows: connecting box from AISi alloy; steel tube treated with powder paint; bracket from galvanized steel sheet. Max. section of connecting conductors 4 mm². Luminaire is made as through-way one and equipped with 2 cable glands. One cable gland is blinded in order to use luminaire as end piece.

Accessories (on order): polycarbonate protective guard 182.2540, stainless clip 4-99.6180/01.

Spare parts (on order): protective glass cover 232.5068/1, protective guard 182.5005, metal clip 4-99.8470/01.

541 17 01
541 24 01



182.5005
182.2540



4-99.8470/01
4-99.6180/01



232.5068/1



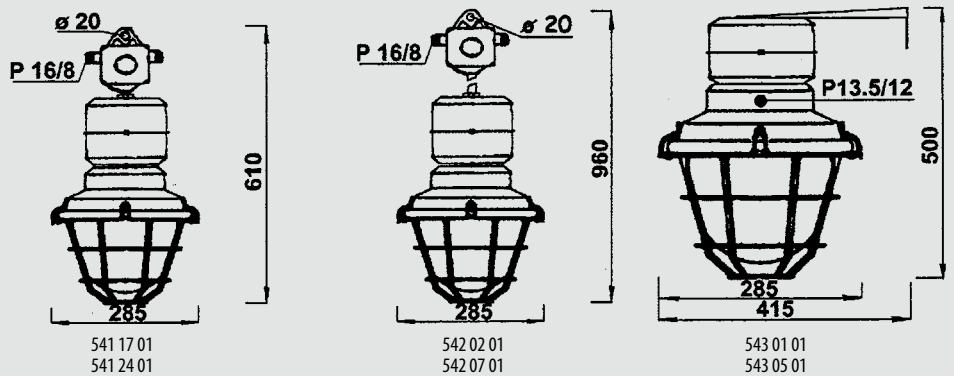
542 02 01
542 07 01



543 01 01
543 05 01

Types	Recommended light source	Weight (kg)	Packing carton (mm) / pcs	Part of luminaire (see picture)	Cable glands	Connecting cable ø (mm)
541 17 01	HP mercury vap. lamp	HQL 125	650 x 290 x 290 / 1	connecting box	P16	6 - 9
541 24 01	HP sodium disch. lamp	NAV 70				
542 02 01	HP mercury vap. lamp	HQL 125	1000 x 290 x 290 / 1	tube and connecting box	P16	6 - 9
542 07 01	HP sodium disch. lamp	NAV 70				
543 01 01	HP mercury vap. lamp	HQL 125	530 x 440 x 290 / 2	bracket	P13.5	11 - 13
543 05 01	HP sodium disch. lamp	NAV 70				

Luminaire with sodium lamp NAV 150 W can be also equipped with metal halide lamp HCI-TT 150 W.



 HQL 125W E27	 NAV 70W E27	 HCI-TT 70W E27	IP 54	230 V 50 Hz		Carton (mm/pcs) 1000 x 280 x 280 / 1 650 x 280 x 280 / 1 530 x 440 x 280 / 2	t_a 25 °C	ČSN EN 60598-1 60598-2-1	321.4 AD4	321.5 AE6	321.6 AF1, AF2, AF3	321.7.1 AG2	321.7.2 AH2	
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FARMER III

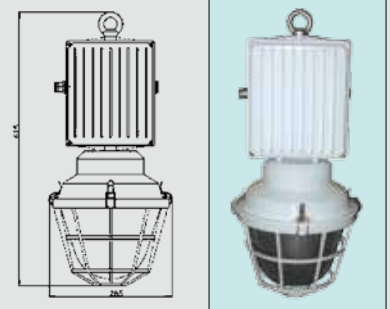
IP 54

Use: For illumination of industrial places (indoor, outdoor and under shelter) with ambient temperature -20 °C ÷ +55 °C. Luminaire is not compensated.

Technical description: Luminaire consists from ballast and light-active parts joined with screws. Ballast box is made from AlSi alloy treated with polyester powder paint in grey colour. Box is equipped with cable glands P13.5, with 1 blinding plug P13.5 and pendant screw with eye ø 30 mm. Body of luminaire is stamping from steel sheet treated with polyester powder paint. A reflector from pickled Al sheet and lampholder E27 are fixed inside the body. Inorganic protective glass cover with rubber sealing and PC guard are fixed to the body by the help of 4 stainless clamps. Electric parts are placed in ballast box. Luminaire can be connected by 3-core cable with outer ø 6 - 12 mm. Three-pole terminal block allows to connect conductors with cross-section up to 2.5 mm².

On order: luminaire in through-way version.

Spare parts (on order): protective glass cover 232.5068/1, protective PC guard 182.2540, stainless enclosure 4-99.6180/01.



Type	Recommended light source	Weight (kg)	Max. ambient temperature t _a (°C)	Packing carton (mm) / pcs	Cable glands	Connecting cable diameter (mm)
541 18 01 t	HP mercury vapour lamp	HQL 125	55	650 x 290 x 290 / 1	P13.5	6 - 12

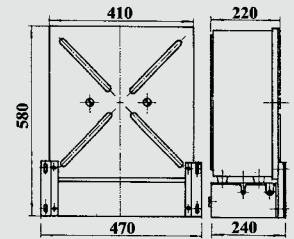
 HQL 125W E27	IP 54	230 V 50 Hz		Carton (mm/pcs) 650 x 290 x 290 / 1	t_a 55 °C	ČSN EN 60598-1 60598-2-1	321.4 AD4	321.5 AE5	321.6 AF1, AF2, AF3	321.7.1 AG2	321.7.2 AH2	
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HALA I

IP 23

Use: For illumination of industrial places.

Technical description: Body and cover of ballast apparatus are made from steel sheet treated with polyester powder paint. Symmetric reflector is from chemically polished Al sheet. Electric parts are fixed to the body. Luminaire is equipped with 2 cable glands PG 16 for connecting cable \varnothing 13 - 15 mm. Max. section of connecting conductors 4 mm².



Types	Recommended light source		Weight (kg)	
341 23 01	HP sodium disch. lamp	NAV	150	11.0
341 24 01	HP sodium disch. lamp	NAV	250	12.0
341 25 01	HP sodium disch. lamp	NAV	400	16.0
341 26 01	HP metal halide lamp	HQI	400	12.0
341 29 01	HP metal halide lamp	HQI	250	12.0

Luminaire with sodium lamp NAV 150 W can be also equipped with metal halide lamp HCI-TT 150 W.

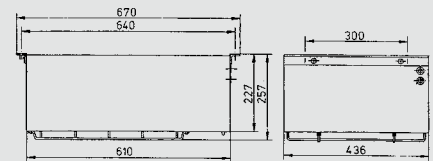
						IP 23	230 V 50 Hz		Carton (mm/pcs) 590 x 490 x 260/1	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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HALA II

IP 23

Use: For illumination of industrial places.

Technical description: Body and cover of ballast apparatus are made from steel sheet treated with polyester powder paint. Symmetric reflector is from chemically polished Al sheet. Electric parts are fixed to the body. Luminaire is equipped with 2 cable glands PG 16 pro connecting cable \varnothing 13 - 15 mm. Max. section of connecting conductors 4 mm². Protective glass, if any, is clear and hardened. Protective guard, if any, is from galvanized steel wire.



Types	Recommended light source		Weigh (kg)		Glass	Wire guard
341 31 01	HP sodium disch. lamp	NAV	150	15.2	+	-
341 31 02	HP sodium disch. lamp	NAV	150	15.7	+	+
341 32 01	HP sodium disch. lamp	NAV	250	16.6	+	-
341 32 02	HP sodium disch. lamp	NAV	250	17.1	+	+
341 33 01	HP sodium disch. lamp	NAV	400	16.2	-	-
341 34 01	HP metal halide lamp	HQI	400	15.2	-	+
341 35 01	HP mercury vap. lamp	HQL	250	14.7	-	-
341 36 01	HP metal halide lamp	HQI	250	14.9	+	-
341 36 02	HP metal halide lamp	HQI	250	15.4	+	+
341 37 01	HP sodium disch. lamp	NAV	150	15.0	-	-
341 38 01	HP sodium disch. lamp	NAV	250	16.4	-	-
341 40 01	HP metal halide lamp	HQI	250 (3 A)	14,8	-	-

Luminaire with sodium lamp NAV 150 W can be also equipped with metal halide lamp HCI-TT 150 W.

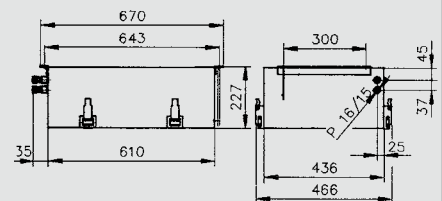
							IP 23	230 V 50 Hz		Carton (mm/pcs) 680 x 470 x 260/1	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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HALA III

IP 54

Use: For illumination of industrial places.

Technical description: Body and frame are made from steel sheet treated with polyester powder paint. Reflector is from chemically polished Al sheet. Protective glass is clear and hardened. Electric parts are fixed in the body. Luminaire is equipped with 2 cable glands PG 16 pro connecting cable \varnothing 13 - 15 mm Max. section of connecting conductors 4 mm².



Types	Recommended light source		Weight (kg)		Reflector
641 02 01	HP sodium disch. lamp	NAV	150	18.4	asymmetrical
641 02 02	HP sodium disch. lamp	NAV	250	19.8	
641 02 03	HP metal halide lamp	HQI	250	18.9	
641 02 05	HP mercury vap. lamp	HQL	250	18.0	
641 02 06	HP metal halide lamp	HQI-T	400	18.0	symmetrical
641 03 01	HP sodium disch. lamp	NAV	150	18.4	
641 03 02	HP sodium disch. lamp	NAV	250	19.8	
641 03 03	HP metal halide lamp	HQI	250	18.9	
641 03 05	HP mercury vap. lamp	HQL	250	18.0	

Luminaire with sodium lamp NAV 150 W can be also equipped with metal halide lamp HCI-TT 150 W.

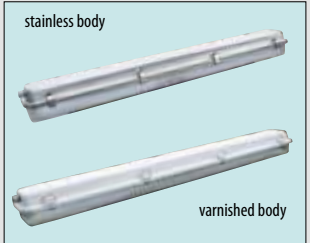
						IP 54	230 V 50 Hz		Carton (mm/pcs) 680 x 470 x 260/1	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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PRACHO (also emergency)

IP 54

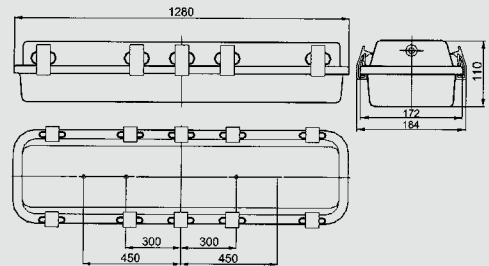
Use: For illumination of indoor industrial places.

Technical description: Body is made from steel sheet (treated with polyester powder paint or made from stainless sheet, according to type). Plate with electric part is fixed in the body. Protective cover is fixed to the body with clamps. Max. section of connecting conductors 2.5 mm². Luminaire is made as through-way one. It is equipped with 2 cable glands P 13.5. When luminaire is used as the end piece, the attached blind washer must replace the sealing washer of cable gland. Type **531 18 20** is designed for **emergency** illumination (2 hours, accumulator Ni-CD 3.6 V / 2.5 Ah).



Spare parts (on order): protective cover (PMMA: No. 1-99.9617, PC: No. 142.5511/2), clamp (plastic: No. 4-99.10213/1, stainless steel: No. 4-99.6188/1), cable gland PG 13.5, blinding washer 514.2572.

Types	Recommended light source	Body	Protective cover	Enclosure	Weight (kg)
531 18 03 IN	3x linear fluor. lamp L 36	varnished sheet	PMMA	plastic	6.0
531 18 13			PC	stainless steel	
531 18 20		stainless sheet			
531 18 19					
531 31 01	2x linear fluor. lamp L 36	varnished sheet	PMMA	plastic	5.0
531 31 13			PC	stainless steel	
531 31 19		stainless sheet			



L 36 W G13	IP 54	230 V 50 Hz		Carton (mm/pcs) 1290 x 190 x 120 / 1	t _a 30 °C		ČSN EN 60598-1 60598-2-1	
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MERIDIAN

IP 54

Use: For illumination of industrial places

Technical description: Body and lampshade are **stampings from steel sheet** treated with polyester powder paint. Electric parts are placed in the body. Protective cover is from hardened glass. Max. section of connecting conductors 4mm². Luminaire is made as through-way one for connecting cable ø 6-9 mm. One gland is blinded in order to use luminaire as the end piece. Only type 541 02 01 is equipped with protective wire guard.



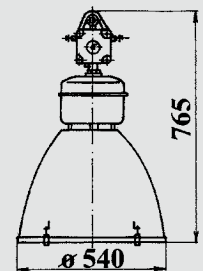
Spare parts (on order): border + glass + sealing + guard No. 2-99.3000/1
border + glass + sealing No. 2-99.7783/1

Types	Recommended light source	Protective guard	Glass	Weight (kg)
541 01 01	HP mercury vap. lamp HQL 250	-	+	16.0
541 01 03	HP sodium disch. lamp NAV 150	-	+	15.0
541 01 04	HP sodium disch. lamp NAV 250	-	+	16.0
541 02 01	HP mercury vap. lamp HQL 400	+	+	17.0

Luminaire with sodium lamp NAV 150 W can be also equipped with metal halide lamp HCI-TT 150 W.



					IP 54	230 V 50 Hz		Carton (mm/pcs) 570 x 570 x 800 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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KOREX

IP 54

Use: For illumination of industrial places.

Technical description: Body and ballast box are **castings from AISi alloy** treated with polyester powder paint. Lampshade from matt Al sheet. Protective cover from hardened glass. Max. section of connecting conductors 4 mm². Luminaire is made as through-way one for 5-core cable. It is equipped with 2 cable glands P16 for cable ø 6 - 9 mm. One gland is blinded in order to use luminaire as the end piece.



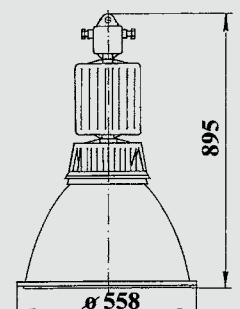
Spare parts (on order): border + glass + sealing No. 2-99.6107

Types	Recommended light source	Weight (kg)
541 10 04	HP metal halide lamp HQI 400	16.6
541 10 06	HP sodium disch. lamp NAV 150	14.8
541 10 07	HP sodium disch. lamp NAV 250	16.6
541 10 08	HP mercury vap. lamp HQL 250	13.6
541 10 09	HP mercury vap. lamp HQL 400	16.3
541 10 10	HP sodium disch. lamp NAV 400	17.0
541 10 11	HP metal halide lamp HQI 250 (3 A)	15.2

Luminaire with sodium lamp NAV 150 W can be also equipped with metal halide lamp HCI-TT 150 W.



								IP 54	230 V 50 Hz		Carton (mm/pcs) 560 x 560 x 910 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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SPOTLIGHT

IP 65

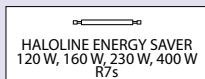
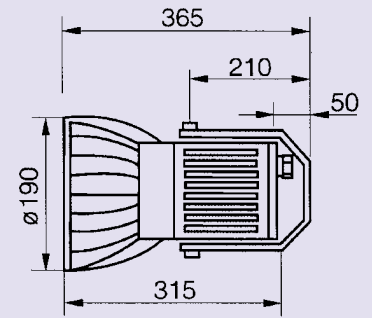
Use: For illumination of hoardings, outlays, architectural objects, foresides of building, underpasses, building sites, parking-sites or other outdoor places with temperature $-20\text{ }^{\circ}\text{C} \div +25\text{ }^{\circ}\text{C}$.

Technical description: Body, cover and connecting part are casting from AlSi alloy treated with polyester powder paint. Connecting part with cable gland PG 13.5x1.5, basic plate with electrical components and rotation-symmetric anodized Al reflector are fixed on the body. Cover with protective hardened glass is screwed-in to the body. Steel holder allows to set the spotlight to the necessary position. Max. section of connecting conductors 2.5 mm².

Spare parts (on order): protective glass



Types	Recommended light source		Weight (kg)	Cap	Cable gland
723 06 01	Halogen linear bulb	HALOLINE	150	R7s	PG 13.5 x1.5
		HALOLINE	200		
		HALOLINE	300		
		HALOLINE	500		
	Halogen linear bulb	HALOLINE ENERGY SAVER	120		
			160		
			230		
			400		
743 06 15	HP sodium lamp	NAV-TS	150	5.0	RX7s-24
	HP metal halide lamp	HQI-TS	150		
743 06 70	HP sodium lamp	NAV-TS	70	4.3	RX7s
	HP metal halide lamp	HQI-TS	70		



		IP 65	230 V 50 Hz		Carton (mm/pcs) 380 x 200 x 200 / 1	t_s 25 °C	ČSN EN 60598-1 60598-2-5	
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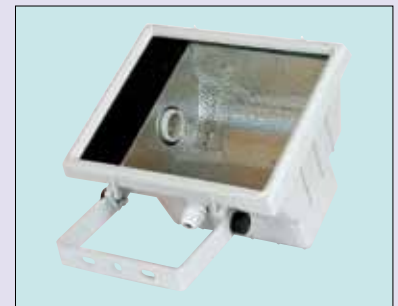
HEADLIGHT

IP 65

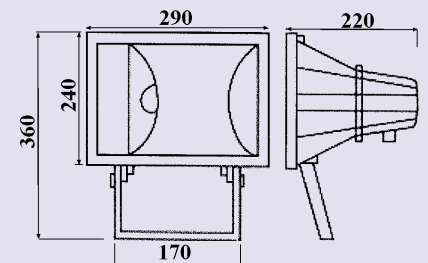
Use: For illumination of hoardings, outlays, architectural objects, foresides of building, underpasses, building sites, parking-sites or other outdoor places with temperature $-20\text{ }^{\circ}\text{C} \div +25\text{ }^{\circ}\text{C}$.

Technical description: Body, cover and connecting part are casting from AlSi alloy treated with polyester powder paint. Connecting part with cable gland M20x1.5, basic plate with electrical components and gently asymmetric anodized Al reflector are fixed on the body. Cover with protective hardened glass is fixed to the body by the help of two stainless clamps. Steel holder allows to set the spotlight to the necessary position. Max. section of connecting conductors 2.5 mm².

Spare parts (on order): protective glass, lampholder



Types	Recommended light source		Weight (kg)	Cable gland
743 05 12	HP mercury lamp	HQL	125	M20 x 1.5
743 05 70	HP metal halide lamp	HCI-TT	70	
	HP sodium lamp	NAV-T	70	



	IP 65	230 V 50 Hz		Carton (mm/pcs) 300 x 250 x 230 / 1	t_s 25 °C	ČSN EN 60598-1 60598-2-5	
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HALSPOT I

IP 65

Use: For illumination of sports facilities and amphitheatres, industrial areas, parking places, public sites, historical monuments, foresides of buildings, building sites, halls, billboards, etc.

Technical description: Body and cover are made from AlSi alloy without surface treatment. Plastic box with terminal block and reflector from anodized and chemically polished Al sheet are fixed to the body. Terminal block is designed for connecting cable \varnothing 6-9 mm. Protective hardened glass is put in the frame. Body and frame are joined with screws. Floodlight can be fixed with holder which enables adjusting floodlight to the requested position. Max. section of connecting conductors 2.5 mm².

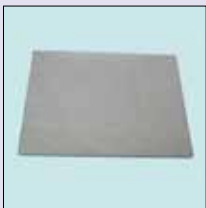
Spare parts (on order): protective glass cover 432.5008, lampholder 4-99.5822/1 (conductor length 290 mm), connecting box 4-99.6028.

Types	Recommended light source	Reflector	Weight (kg)
723 01 01	Halogen linear lamp HALOLINE 1000	smooth	7.0
723 01 02		diffusing	

432.5008

4-99.5822/1

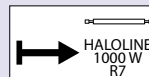
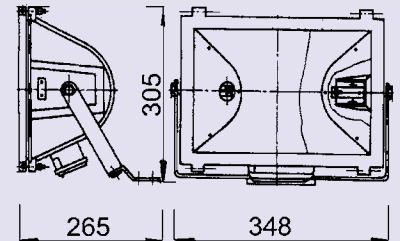
4-99.6028



723 01 01



723 01 02



IP 65

230 V
50 Hz



Carton (mm/pcs)
350 x 350 x 200 / 1

t_a
25 °C

ČSN EN
60598-1
60598-2-5



HALSPOT II

IP 65

Use: For illumination of sports facilities and amphitheatres, industrial areas, parking places, public sites, historical monuments, foresides of buildings, building sites, halls, billboards, etc.

Technical description: Body and cover are made from AlSi alloy without surface treatment. Plastic box with terminal block and reflector from anodized and chemically polished Al sheet are fixed to the body. Terminal block is designed for connecting cable \varnothing 6-9 mm. Protective hardened glass is put in the frame. Body and frame are joined with screws. Floodlight can be fixed with holder which enables adjusting floodlight to the requested position. Max. section of connecting conductors 2.5 mm².

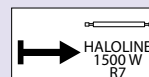
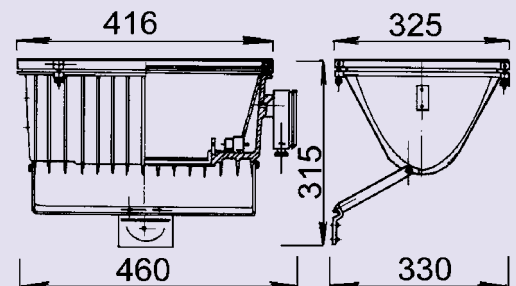
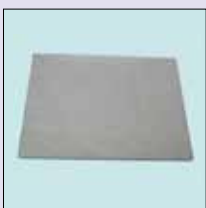
Spare parts (on order): protective glass cover 432.5035, connecting box 4-99.6028, lampholder 4-99.5825/1 (conductor length 290 mm), lampholder 4-99.5825/1 (conductor length 740 mm).

Type	Recommended light source	Reflector	Weight (kg)
723 04 02	Halogen linear lamp HALOLINE 1500	diffusing	10.0

432.5035

4-99.5825/1
4-99.5822/1

4-99.6028



IP 65

230 V
50 Hz



Carton (mm/pcs)
460 x 570 x 285 / 1

t_a
25 °C

ČSN EN
60598-1
60598-2-5

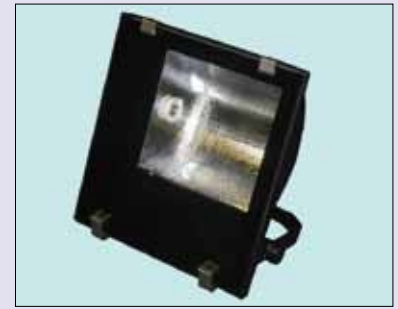


RPG I

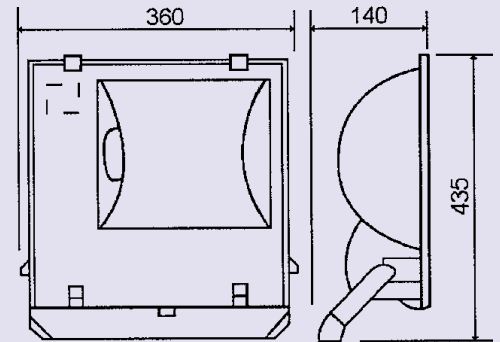
IP 65

Use: For illumination of sports facilities and amphitheatres, industrial areas, parking places, public sites, historical monuments, foresides of buildings, building sites, halls, billboards, etc.

Technical description: Body is die casting from AlSi alloy treated with polyester powder paint and sealed with silicon sealing. Symmetrical anodized Al reflector and electric parts are fixed inside the body. Protective hardened glass cover is fixed to the body by the help of 4 clips. Connecting cable is fixed through the cable gland PG 13.5 in the bottom part of body. Max. section of conductors 2.5 mm². Floodlight is fixed to the surface by the help of steel holder treated with powder paint. Holder enables to switch the floodlight in requested position.



Types	Recommended light source	Weight (kg)
743 02 10	HP sodium disch. lamp NAV-T 100	5.0
743 02 15	HP sodium disch. lamp NAV-T 150	5.0
	HP metal halide lamp HCI-TT 150	4.5
743 02 70	HP sodium disch. lamp NAV-T 70	4.5
	HP metal halide lamp HCI-TT 70	4.0



					IP 65	230 V 50 Hz		Carton (mm/pcs) 360 x 435 x 140 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-5	
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RPG II

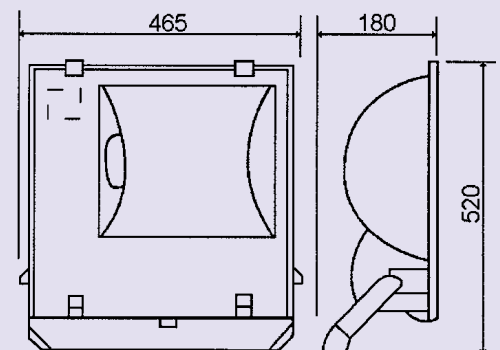
IP 65

Use: For illumination of sports facilities and amphitheatres, industrial areas, parking places, public sites, historical monuments, foresides of buildings, building sites, halls, billboards, etc.

Technical description: Body is die casting from AlSi alloy treated with polyester powder paint and sealed with silicon sealing. Symmetrical anodized Al reflector and electric parts are fixed inside the body. Protective hardened glass cover is fixed to the body by the help of 4 clips. Connecting cable is fixed through the cable gland PG 13.5 in the bottom part of body. Max. section of conductors 2.5 mm². Floodlight is fixed to the surface by the help of steel holder treated with powder paint. Holder enables to switch the floodlight in requested position.



Types	Recommended light source	Weight (kg)
743 03 25	HP sodium disch. lamp NAV-T 250	10.0
	HP metal halide lamp HQI-T 250	
743 03 40	HP sodium disch. lamp NAV-T 400	11.0
	HP metal halide lamp HQI-T 400	



				IP 65	230 V 50 Hz		Carton (mm/pcs) 465 x 520 x 180 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-5	
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TITAN

IP 54

Use: For powerful illumination of sports facilities and amphitheatres, parking places, historical monuments, foreshores of buildings, building sites, halls, etc.

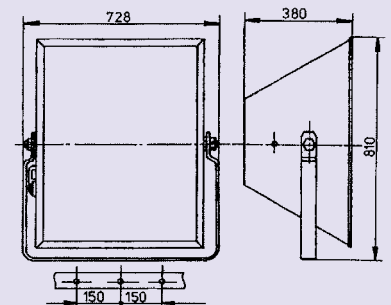
Technical description: Body and cover are made from steel sheet treated with powder paint. Asymmetric reflector is from chemically polished Al sheet. Protective cover is from hardened glass. Floodlight is equipped with connecting box 4-99.60289 for cable \varnothing 6-9 mm. Max. section of connecting conductors 2.5 mm². Ballast apparatus is not a part of delivery.

Accessories (on order): ballast apparatus BOX T (page 31).

Spare parts (on order): connecting box 4-99.6028, lampholder 3-99.10246.



Types	Recommended light source	Weight (kg)
541 19 01	HP metal halide lamp HQI-T 2000/400 V	30.5
541 19 02	HP metal halide lamp HPI-T 1000/230 V	25.0



BOX T

4-99.6028

3-99.10246



	 HQI-T 2000 W E40	 HPI-T 1000 W E40	IP 54	400 V 50 Hz	230 V 50 Hz		Carton (mm/pcs) 850 x 750 x 420 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-5	
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Ballast apparatus BOX T

IP 55

Use: For power supplying HP tube metal halide lamp (for example in floodlight TITAN - page 31).

Technical description: Box is made from thermoplastic. Two cable glands PG 16 are intended for connecting cable \varnothing 12 - 15 mm; cable gland PG 13.5 is intended for connecting cable of floodlight (\varnothing 6 - 9 mm). Because of the fact, that high-voltage impuls passes through from starter, for connection between ballast box and floodlight there is necessary to use such conductor, that complies voltage test 4.5 kV. Length of cable between ballast box and floodlight is allowed max. 50 m, if insulation condition of cable complies with valid standards CSN.



Types	Recommended light source	Weight (kg)
622.1 ES	HP metal halide lamp HQI-T 2000 W/400 V; 10.3 A	17.0
622.2 ES	HP metal halide lamp HPI-T 1000 W/230 V	13.0

	 HQI-T 2000 W E40	 HPI-T 1000 W E40	IP 55	400 V 50 Hz	230 V 50 Hz		Carton (mm/pcs) 350 x 260 x 190 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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SPOT I

IP 54

Use: For illumination of sports facilities and amphitheatres, industrial areas, parking places, public sites, historical monuments, foresides of buildings, building sites, halls, billboards, etc.

Technical description: Body, holder and connecting box of type 743 01 03 are castings from AlSi alloy treated with grey powder paint; connecting box of other types is made from silamid. Reflector is made from clad, anodized and chemically polished Al sheet. Area of light source is covered by protective hardened glass. Max. section of connecting conductors 2.5 mm². Starter is part of connecting box by type 743 01 03. Position of light source can be adjusted by rod in order to change characteristic of light output. Holder enables to switch the floodlight both in horizontal and vertical planes. Floodlight is delivered with the base holder as standard (the welded-on one optionally on order).



Accessories (on order): welded-on holder 4-99.6019, ballast apparatus BOX 7 (page 32) for HP discharge lamps.

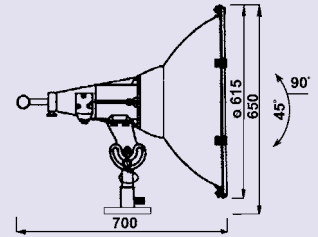
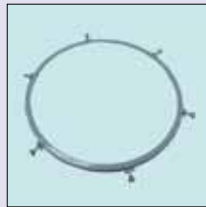
Spare parts (on order): circle border + glass + silicon sealing No. 2-99.7043/2 (for bulbs), circle border + glass + rubber sealing No. 2-99.7043/1 (for HP discharge lamps), base holder 4-99.5526.

Types	Recommended light source			Ballast apparatus	Max. ambient temperature (°C)	Border + glass + sealing	Weight (kg)
713 01 02	Bulb Mixed-light lamp	SPC.AT CL	HWL	500	-	45	silicon 2-99.7043/2
743 01 02	HP mercury vap. lamp	HQL		1-99.5868	25	rubber 2-99.7043/1	10.0
743 01 03	HP sodium disch. lamp	NAV		1-99.5864			
	HP metal halide lamp	HQI		1-99.5871			

4-99.5526

4-99.6019

2-99.7043/1
2-99.7043/2



Ballast apparatus BOX 7

IP 54

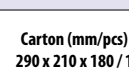
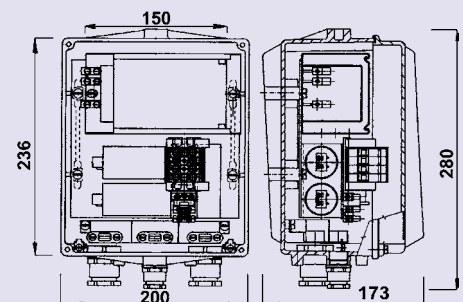
Use: For power supplying luminaires and floodlights with HP discharge lamps (for example SPOT I – page 32).

Technical description: Body and cover are castings from AlSi alloy treated with powder paint. Electric parts are fixed in the body. Two cable glands P21 (ø 12 - 15 mm) are used for connecting cables, cable gland P13.5 (ø 6 - 9 mm) is used for connecting the luminaire. Box is compensated. Electric circuit of luminaire is secured with fuse 4 A. Max. section of connecting conductors 6 mm². Box is designed as through-way one and equipped with blind washer in order to use the box as the end piece. Box can be fixed on the wall through M6 threads in the body or by the help of set of holders 438.2688/1.

Accessories (on order): set of holders 438.2688/1.



Types	Recommended light source		Weight (kg)
1-99.5864		NAV 400	8.5
1-99.5865		NAV 250	
1-99.5866	HP sodium disch. lamp	NAV 150	
1-99.5867		NAV 100	
1-99.5868	HP mercury vap. lamp	HQL 400	
1-99.5871	HP metal halide lamp	HQI 400	



SPOT II

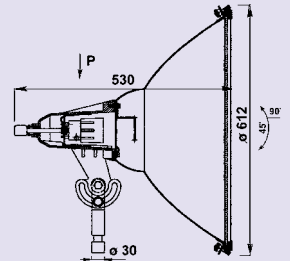
IP 54

Use: For illumination of sports facilities and amphitheatres, industrial areas, parking places, public sites, historical monuments, foresides of buildings, building sites, halls, billboards, etc.

Technical description: Body, holder and ballast box are castings from AISi alloy treated with polyester powder paint. Ballast box and reflector from clad, anodized and chemically polished Al sheet are fixed to the body. Area of light source is covered by protective hardened glass. Max. section of connecting conductors 6 mm². Position of light source can be adjusted by rod in order to change characteristic of light output. Holder enables to switch the floodlight both in horizontal and vertical planes. Floodlight is delivered with the base holder as standard (the welded-on one optionally on order).

Accessories (on order): welded-on holder 4-99.6019.

Spare parts (on order): circle border + glass + rubber sealing No. 2-99.7043/1, base holder 4-99.5526.

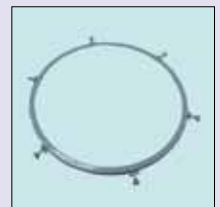


Types	Recommended light source	Weight (kg)
743 01 05	NAV SUPER 600	13.0
743 01 06	HP sodium disch. lamp NAV 400	
743 01 07	NAV 250	
743 01 08	HP mercury vap. lamp HQL 400	
743 01 09	HQL 250	
743 01 10	HP metal halide lamp HQI 400	

4-99.5526

4-99.6019

2-99.7043/1



						IP 54	230 V 50 Hz		Carton (mm/pcs) 630 x 630 x 580 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-5	
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FLOODLIGHT

IP 65

Use: For special illumination in industrial spaces with temperature up to +60 °C (indoor, under cover and outdoor).

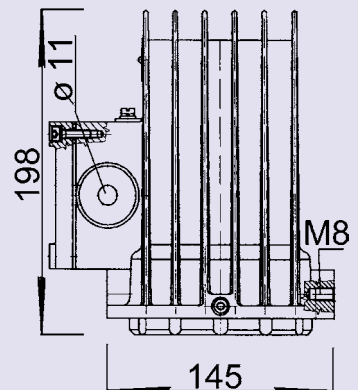
Technical description: Body, flange and cover are made from AISi alloy treated with polyester powder paint. Flange with protective glass is screwed into the body. Max. section of connecting conductors 4 mm². Luminaire is equipped with 1 inner and 1 outer earthing clamp. Luminaire is made in end construction and equipped with cable gland M20x1.5 for connecting cable ø 9 – 12 mm. Luminaire is fixed in the body by the help of 2 thread holes M8 with thread depth 12 mm.

NOTE! When installing, the minimal distance 30 mm between the glass and the other objects (eye-slit, etc.) in direction of the optical axe must be kept!



Types	Recommended light source	Voltage (V/Hz)	Protective class	Weight (kg)
529 04 01	Halogen bulb HALOSPOT 70 41970	SP (8°) 20 W	12 (DC)	3.5
		FL (24°)		
529 04 02	Halogen bulb HALOPAR 20 64832	SP (8°) 50 W	230/50	I
		FL (24°)		
		SP (10°) 50 W		
		FL (30°)		

Note: SP = SPOT, FL = FLOOD



ČSN EN 60598-1 60598-2-5	ČSN EN	ČSN EN 33 2000-3 321.4 AD5	321.5 AE6	321.6 AF1, AF2, AF3	321.7.1 AG2	321.7.2 AH2	
			230 V 50 Hz		DC 12 V	Carton (mm/pcs) 330 x 230 170/1	t _a 60 °C

VAGON

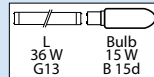
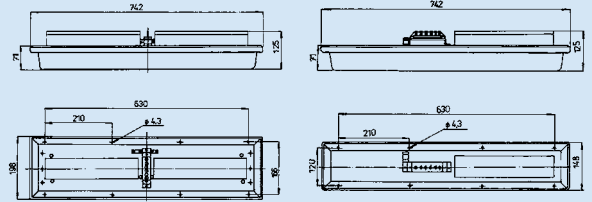
IP 54

Use: For illumination of inner spaces in rail or underground vehicles.

Technical description: Body from Al sheet and frame from steel sheet are treated with white polyester powder paint. Electric parts are fixed in the body. Protective cover from organic glass is sealed in the frame with microporous rubber.



Types	Recommended light source	DC (V)	Weight (kg)
637 06 06	2x linear fluor. lamp L 18 + 2x bulb 15 W	24	4.0
637 06 07		48	
637 22 01	1x linear fluor. lamp L 18 + 1x bulb 15 W	24	3.0
637 22 02		48	



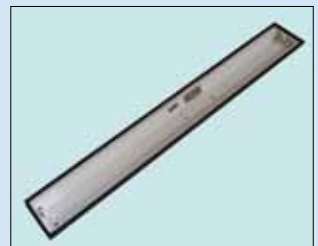
IP 54	DC 24 V	DC 48 V		Carton (mm/pcs) 750 x 280 x 210 / 2	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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METRO

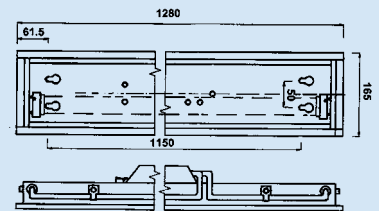
IP 43

Use: For illumination of inner spaces in rail or underground vehicles.

Technical description: Body from Al sheet is treated with white polyester powder paint. Electric part are fixed in the body. Sealing from microporous rubber is glued in the rift of body. Luminaire is supplied without protective cover!



Type	Recommended light source	DC (V)	Weight (kg)
637 27 07	1x linear fluorescent lamp L 36	24	2.7



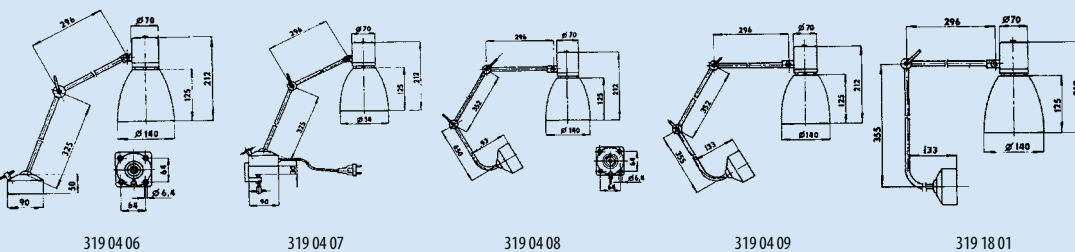
	IP 43	DC 24 V		Carton (mm/pcs) 750 x 140 x 120 / 2	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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MACHINE

IP 20

Use: For local illumination of work sites by machine tools and other machinery.

Technical description: Lampshade is from pickled Al sheet and treated on the outer surface with powder paint. Cover from Al sheet treated with powder paint is equipped with built-in switch. Arms from steel tubes are treated with powder paint. Swivel joint enables swivelling and turning luminaire. Fixing elements are made from AlSi alloy. Type 319 04 07 is also equipped with vice and connecting cable with plug.



Types	Recommended light source	Weight (kg)	Max. diameter of conn. conductor (mm ²)	Part of luminaire (see picture)
319 04 06	Bulb CLAS 60	1.4	2.5	fixing element + 2 arms
319 04 07		1.6	-	vice + connecting cable with plug
319 04 08	Halogen bulb	1.4	2.5	fixing element + 3 arms
319 04 09	EcoClassic 53	1.3	2.5	fixing element + 3 arms
319 18 01		1.1	2.5	fixing element + 2 arms

230 V 50 Hz	t _a 25 °C	ČSN EN 60598-1 60598-2-4	
		IP 20	
Carton (mm/pcs) 830 x 425 x 155 / 4			

RAMINKO

IP 43 / 23

Use: For public illumination of communications, pedestrian zones, gardens and parks, residential blocks.

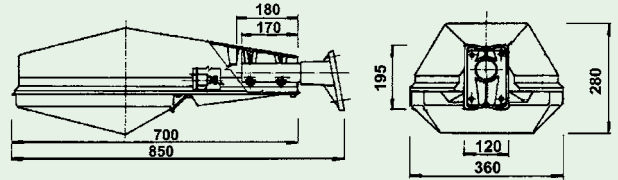
Technical description: Body and cover are made of prepreg (polypropylene hardened with glass fibres). Optical cover from PMMA. Reflector from clad, anodized or chemically polished Al sheet. Electric parts incl. fuse 2 A are fixed in the body. Sealing from microporous rubber. By some types, bracket 2-99.5581 for fixing on wall is also a part of delivery. Versions of luminaires: A, B, C, D, E (see table). Luminaire is fixed on pole bracket \varnothing 60 mm. Max. section of connecting conductors 2.5 mm².

Accessories (on order): fixing element 3-99.6026 on shaft of pole, bracket 3-99.10222 on the wall, bracket 4-99.10230 on concrete pole, fixing element JET 60-60-90 on shaft of pole, fixing element MACH 60 on wall, bracket UDS 300, UDS 500, UDS 1000, UDS 1500, UDS 2500, UDS 300 R, UDS 500 R, reduction 76-60.

Spare parts (on order): clear cover 4-99.8105/1.



Types	Recommended light source			Weight (kg)
444 19 70	HP sodium disch. lamp	NAV	70	7.5
	HP metal halide lamp	HCI-TT	70	
444 19 71	HP mercury vap. lamp	HQL	80	7.0
444 19 72	HP mercury vap. lamp	HQL	125	7.5



Versions	Reflector 164.5004 chem. polished	Reflector 164.2540 anodized	Reflector 255.5088 anodized	Holder 2-99.5581	Blind plug 451.2674
444 19 70	+	-	-	+	+
444 19 71	+	-	-	+	+
444 19 72	+	-	-	+	+
444 19 70 A	-	+	-	+	+
444 19 70 B	-	-	+	+	+
444 19 70 C	+	-	-	-	-
444 19 71 C	+	-	-	-	-
444 19 72 C	+	-	-	-	-
444 19 70 D	-	+	-	-	-
444 19 71 D	-	+	-	-	-
444 19 72 D	-	+	-	-	-
444 19 70 E	-	-	+	-	-
444 19 71 E	-	-	+	-	-
444 19 72 E	-	-	+	-	-



				IP 43/23	230 V 50 Hz		Carton (mm/pcs) 690 x 360 x 290 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-3	
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CITY

IP 54 / 23

Use: For public illumination of communications, pedestrian zones, gardens and parks, residential blocks.

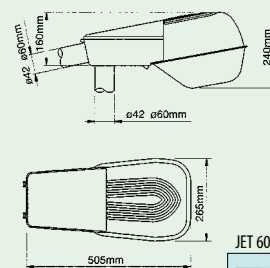
Technical description: Body from polyamide. Optical cover from PC. Reflector from anodized Al sheet. Electric parts are fixed in the body. Type 444 30 71 is equipped with programmable ballast Ecolum EC4-70 able to regulate light output. Luminaire is fixed on pole shaft or pole bracket \varnothing 42 - 60 mm. Max. section of connecting conductors 2.5 mm².

Accessories (on order): fixing element 3-99.6026 on shaft of pole, bracket 3-99.10222 on the wall, bracket 4-99.10230 on concrete pole, fixing element JET 60-60-90 on shaft of pole, fixing element MACH 60 on wall, bracket UDS 300, UDS 500, UDS 1000, UDS 1500, UDS 2500, UDS 300 R, UDS 500 R, reduction 76-60.

Spare parts (on order): electronic ballast Ecolum EC4-70.



Types	Recommended light source			Weight (kg)	El. ballast
444 30 10	HP sodium discharge lamp	NAV	100	4.3	
	HP metal halide lamp	HCI-TT	100		
444 30 12 444 30 12 P	HP mercury vapour lamp	HQL	125		
444 30 70 444 30 70 P	HP sodium discharge lamp	NAV	70	4.0	EC4-70
444 30 71	HP sodium discharge lamp	NAV	70		



P = luminaire equipped with fuse 2 A.

					IP 54/23	230 V 50 Hz		Carton (mm/pcs) 560 x 340 x 340 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-3	
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STREET

IP 65 / 43

Use: For public illumination of communications, pedestrian zones, gardens and parks, residential blocks.

Technical description: Body and cover – castings from AlSi alloy. Optical cover from glass. Reflector from chemically polished Al sheet. Electric parts are fixed in the body. Type 444 42 73 is equipped with programmable ballast Ecolum EC4-70 able to regulate light output. Luminaire is fixed on pole bracket \varnothing 42 - 60 mm. Max. section of connecting conductors 2.5 mm².

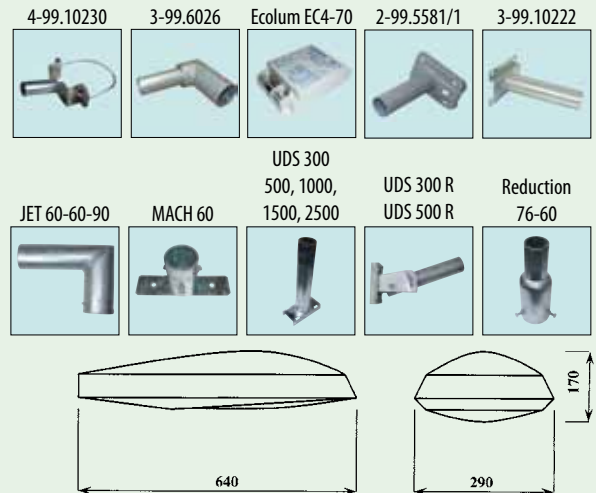
Accessories (on order): fixing element 3-99.6026 on shaft of pole, bracket 3-99.10222 on the wall, bracket 4-99.10230 on concrete pole, fixing element JET 60-60-90 on shaft of pole, fixing element MACH 60 on wall, bracket UDS 300, UDS 500, UDS 1000, UDS 1500, UDS 2500, UDS 300 R, UDS 500 R, reduction 76-60.

Spare parts (on order): electronic ballast Ecolum EC4-70.



Types	Recommended light source	Weight (kg)	El. ballast
444 42 10	HP sodium discharge lamp NAV	100	-
444 42 10 P	HP metal halide lamp HCI-TT		
444 42 12	HP mercury vapour lamp HQL	125	
444 42 15	HP sodium discharge lamp NAV	150	
	HP metal halide lamp HCI-TT		
444 42 25	HP sodium discharge lamp NAV	250	
444 42 26	HP mercury vapour lamp HQL	250	
444 42 50	HP sodium discharge lamp NAV	50	
444 42 50 P	HP metal halide lamp HCI-TT	70	
444 42 70	HP sodium discharge lamp NAV	70	
444 42 70 P	HP metal halide lamp HCI-TT		
444 42 73	HP sodium discharge lamp NAV	70	
444 42 80	HP mercury vapour lamp HQL	80	-

P = luminaire equipped with fuse 2 A.



NAV 100 W E40	HCI-TT 100 W E40	HQL 125 W E27	NAV 150 W E40	HCI-TT 150 W E40	NAV 250 W E40	HQL 250 W E40	NAV 50 W E27	NAV 70 W E27	HCI-TT 70 W E27	HQL 80 W E27	IP 65/43	230 V 50 Hz	Carton (mm/pcs) 680 x 340 x 200 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-3	CE
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SADOVKA

IP 54

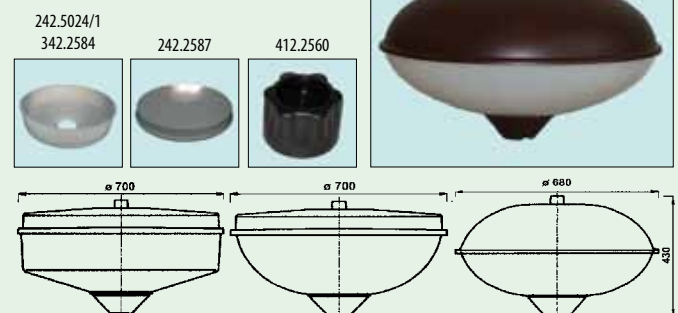
Use: For public illumination of communications, pedestrian zones, gardens and parks, residential blocks.

Technical description: Upper cover from prepreg – polypropylene hardened with glass fibres (versions B: from ABS) stabilized against UV rays. Lower cover from PMMA Umastyr MS Opal 008. Nut for fixing upper cover is from silamid. Support is formed by cone from prepreg and holder from AlSi alloy for fixing on pole. Replaceable basic plate with electric parts is fixed to the support. Luminaire can be made in two colour shades as a standard: H - brown, S - grey. Luminaire is fixed on shaft of pole \varnothing 60 mm. Max. section of connecting conductors 2.5 mm².

Spare parts (on order): upper cover 242.2587 (H – brown, S - grey), lower cover 242.5024/1 (till 1995) or 342.2584 (since 1995), silamid nut 412.2560.

Types	Recommended light source	Weight (kg)
446 05 11	HP sodium disch. lamp NAV	11.0
446 05 11 A	HP metal halide lamp HCI-TT	
446 05 11 B	HP metal halide lamp HCI-TT	12.0
446 05 16	HP sodium disch. lamp NAV	
446 05 16 A	HP metal halide lamp HCI-TT	12.0
446 05 16 B	HP metal halide lamp HCI-TT	
446 05 25	HP mercury vap. lamp HQL	12.0
446 05 25 A	HP mercury vap. lamp HQL	
446 05 25 B	HP mercury vap. lamp HQL	11.0
446 05 26	HP mercury vap. lamp HQL	
446 05 26 A	HP mercury vap. lamp HQL	11.0
446 05 26 B	HP mercury vap. lamp HQL	
446 05 71	HP sodium disch. lamp NAV	70
446 05 71 A	HP metal halide lamp HCI-TT	
446 05 71 B	HP metal halide lamp HCI-TT	

Note: By placing order, abbreviation of colour (H or S) must be added to type number.



NAV 100 W E40	HCI-TT 100 W E40	NAV 150 W E40	HCI-TT 150 W E40	HQL 250 W E40	HQL 125 W E27	NAV 70 W E27	HCI-TT 70 W E27	IP 54	230 V 50 Hz	Carton (mm/pcs) 725 x 725 x 440 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-1	CE
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KOULE A

IP 54 / 23

Use: For public illumination of communications, pedestrian zones, gardens and parks, residential blocks.

Technical description: Luminaire consists from beam and body (castings from AlSi alloy), joined with screws, and 2 hemispherical covers. Decorative belt from prepreg is fixed to the body from outside, the electric parts are fixed inside body. Upper cover is fixed with screws, lower cover is fixed with clamps from PC. Luminaire can be made in two colour shades as a standard: S - grey, Z - green. It can be fixed on shaft of pole \varnothing 60 mm. Max. section of connecting conductors 2.5 mm².

Types 446 16 xx: both covers from opal PMMA, luminous flux not streamed.

Types 446 17 xx: upper cover from prepreg, lower cover from clear PMMA, luminous flux streamed by symmetric reflector.

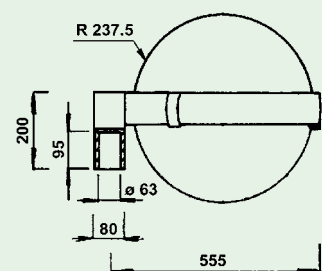
Types 446 18 xx: upper cover from prepreg, lower cover from clear PMMA, luminous flux streamed by asymmetric reflector.

Spare parts (on order): lower cover (clear 042.5549/1, opal 042.5550/1), PC clamp 317.5016/1.

Types	Recommended light source	Weight (kg)	Upper cover	Lower cover	Luminous flux	Reflector
446 16 01	HP sodium discharge lamp NAV 50	8.0	PMMA opal	PMMA opal	unstreamed	-
446 16 02	HP sodium discharge lamp NAV 70	9.5				
446 17 01	HP sodium discharge lamp NAV 50	8.0	prepreg	PMMA clear	streamed	symmetrical
446 17 02	HP sodium discharge lamp NAV 70	9.5				
446 18 01	HP sodium discharge lamp NAV 50	10.5				asymmetrical
446 18 02	HP sodium discharge lamp NAV 70	11.0				

Note: Abbreviation of colour (Z or S) must be added to type number when placing order.

Luminaire with sodium lamp NAV 70 W can be also equipped with metal halide lamp HCI-TT 70 W.



KOULE B

IP 54 / 23

Use: For public illumination of communications, pedestrian zones, gardens and parks, residential blocks.

Technical description: Luminaire consists from beam and body (castings from AlSi alloy), joined with screws, and 2 hemispherical covers. Decorative belt from prepreg is fixed to the body from outside, the electric parts are fixed inside body. Upper cover is fixed with screws, lower cover is fixed with clamps from PC. Luminaire can be made in two colour shades as standard: S - grey, Z - green. It can be fixed on shaft of pole \varnothing 60 mm. Max. section of connecting conductors 2.5 mm².

Type 446 19 xx: both covers from opal PMMA, luminous flux not streamed.

Type 446 20 xx: upper cover from prepreg, lower cover from clear PMMA, luminous flux streamed by symmetric reflector.

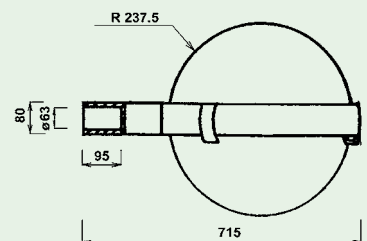
Accessories (on order): 2, 3, 4-arm fixing elements types 2-99.9267, 2-99.9268 and 2-99.9269

Spare parts (on order): lower cover (clear 042.5549/1, opal 042.5550/1), PC clamp 317.5016/1.

Types	Recommended light source	Weight (kg)	Upper cover	Lower cover	Luminous flux	Reflector
446 19 01	HP sodium discharge lamp NAV 50	8.5	PMMA opal	PMMA opal	unstreamed	-
446 19 02	HP sodium discharge lamp NAV 70	9.0				
446 20 01	HP sodium discharge lamp NAV 50	10.0	prepreg	PMMA clear	streamed	symmetrical
446 20 02	HP sodium discharge lamp NAV 70	11.0				

Note: Abbreviation of colour (Z or S) must be added to type number when placing order.

Luminaire with sodium lamp NAV 70 W can be also equipped with metal halide lamp HCI-TT 70 W.



KUZEL

IP 54

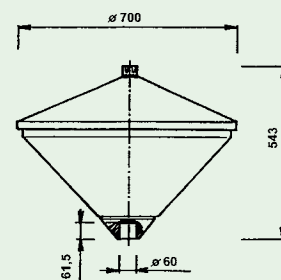
Use: For public illumination of communications, pedestrian zones, gardens and parks, residential blocks.

Technical description: Upper cover pressed from prepreg. Nut for fixing upper cover is made from silamid. Support is formed by cone from prepreg and holder from AlSi alloy for fixing on pole. Lower cover is made from opal PMMA. Replaceable basic plate with electric parts is fixed to the support.

Luminaire is fixed on shaft of pole \varnothing 60 mm. Max. section of connecting conductors 2.5 mm².

Spare parts (on order): lower cover 342.2554, silamid nut 412.2560.

Types	Recommended light source		Weight (kg)
446 27 01	HP mercury vapour lamp	HQL	80
446 27 03		HQL	125
446 27 05	HP sodium discharge lamp	NAV	50
446 27 07		NAV	70
446 27 09		NAV	100



Luminaire with sodium lamp NAV 70 W, 100 W can be also equipped with metal halide lamp HCI-TT 70 W, 100 W.

							IP 54	230 V 50 Hz		Carton (mm/pcs) 705 x 705 x 550 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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OP PRIZMA

IP 65

Use: For public illumination of communications, pedestrian zones, gardens and parks, residential blocks.

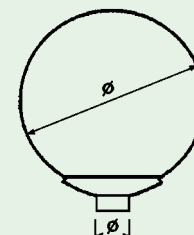
Technical description: Body of luminaire pressed from PC. Optical cover \varnothing 400 mm from diffusing clear PMMA. Stainless steel shield grid ensures an optimal scattering of light. Replaceable basic plate with electric parts is fixed to the body of luminaire by the help of 3-dot bayonet lock. Luminaire is fixed on the shaft of pole \varnothing 60 mm. Max. section of connecting conductors 2.5 mm².

Accessories (on order): optical cover: opal, clear smooth or clear smooth with upper silver coat.

Spare parts (on order): stainless steel shield grid, diffusing clear PMMA cover.

Types	Recommended light source		Weight (kg)	Electronic ballast
446 35 10	HP sodium discharge lamp	NAV-E	100	-
446 35 11	HP metal halide lamp	HQI-E	100	
446 35 12	VHP mercury vapour lamp	HQL	125	-
446 35 50	HP sodium discharge lamp	NAV-E	50	
446 35 70	HP sodium discharge lamp	NAV-E	70	-
446 35 71	HP metal halide lamp	HQI-E	70	
446 35 73	HP sodium discharge lamp	NAV-E	70	EC4-70
446 35 80	HP mercury vapour lamp	HQL	80	-

							IP 65	230 V 50 Hz		Carton (mm/pcs) 460 x 460 x 470 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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OP OPAL

IP 65

Use: For public illumination of communications, pedestrian zones, gardens and parks, residential blocks.

Technical description: Body of luminaire pressed from PC. Optical cover \varnothing 450 mm from opal PMMA. Replaceable basic plate with electric parts is fixed to the body of luminaire by the help of 3-dot bayonet lock.

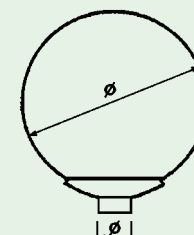
Luminaire is fixed on the shaft of pole \varnothing 60 mm. Max. section of connecting conductors 2.5 mm².

Accessories (on order): optical cover opal diffusing, clear smooth or clear smooth with upper silver coat.

Spare parts (on order): opal PMMA cover.

Types	Recommended light source		Weight (kg)	Electronic ballast
446 36 10	HP sodium discharge lamp	NAV-E	100	-
446 36 11	HP metal halide lamp	HQI-E	70	
446 36 12	HP mercury vapour lamp	HQL	125	-
446 36 50	HP sodium discharge lamp	NAV-E	50	
446 36 70	HP sodium discharge lamp	NAV-E	70	-
446 36 71	HP metal halide lamp	HQI-E	70	
446 36 72	HP sodium discharge lamp	NAV-E	70	EC4-70
446 36 80	HP mercury vapour lamp	HQL	80	-

							IP 65	230 V 50 Hz		Carton (mm/pcs) 550 x 550 x 510 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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OPC AURIS

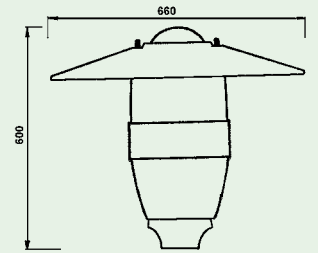
IP 65

Use: For public illumination of communications, pedestrian zones, gardens and parks, residential blocks.

Technical description: Body of luminaire pressed from PC. Optical cover from clear smooth PMMA. Upper cover from metal sheet treated with polyester powder paint. Replaceable basic plate with electric parts is fixed to the body of luminaire by the help of 3-dot bayonet lock. Luminaire is fixed on the shaft of pole \varnothing 60 mm. Max. section of connecting conductors 2.5 mm².

Accessories (on order): stainless steel shield grid.

Spare parts (on order): clear PMMA cover.



Types	Recommended light source			Weight (kg)
446 37 10	HP sodium discharge lamp	NAV-E	100	4.5
446 37 11	HP metal halide lamp	HQI-E	70	
446 37 12	HP mercury vapour lamp	HQL	125	4.1
446 37 50	HP sodium discharge lamp	NAV-E	50	
446 37 70	HP sodium discharge lamp	NAV-E	70	4.3
446 37 71	HP metal halide lamp	HQI-E	70	
446 37 80	HP mercury vapour lamp	HQL	80	3.8

							IP 65	230 V 50 Hz		Carton (mm/pcs) 705 x 705 x 550 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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LUCERNA

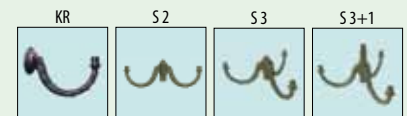
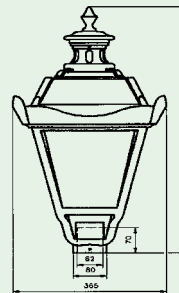
IP 54

Use: For public illumination of communications, pedestrian zones, gardens and parks, residential blocks.

Technical description: Body and upper cover are made from plastic. Optical cover from opal or clear PC. Replaceable basic plate with electric parts is fixed to the upper cover of luminaire. Luminaire is fixed on the shaft of pole \varnothing 60 mm. Max. section of connecting conductors 4 mm².

Accessories (on order): bracket KR for fixing on wall, fixing elements R2, R3, R3+1.

Types	Recommended light source			Weight (kg)
446 60 12	HP mercury vapour lamp	HQL	125	5.3
446 60 15	Bulb	CLAS	150	4.2
	Halogen bulb	EcoClassic	105	
446 60 70	HP sodium discharge lamp	NAV	70	5.6
	HP metal halide lamp	HCI-TT	70	
446 60 80	HP mercury vapour lamp	HQL	80	5.2



						IP 54	230 V 50 Hz		Carton (mm/pcs) 380 x 380 x 580 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-1	
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ATTACHE

IP 65

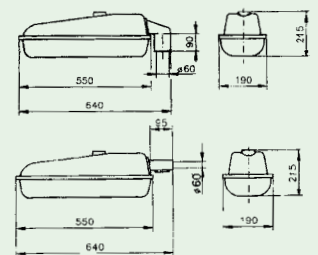
Use: For public illumination of communications, pedestrian zones, gardens and parks, residential blocks.

Technical description: Body pressed from prepreg. Optical cover from clear diffusing PC. Steel holder and replaceable basic plate with electric parts are fixed to the body. Luminaire can be equipped with fuse or with transistorized ballast (see table below). Types 444 34 70 and 446 34 70 are equipped with programmable ballast Ecolum EC4-70 able to regulate light output. Types 484 06 xx and 486 06 xx must be connected to 2 phases with possibility to switch-off 1 circle. Luminaire is fixed on bracket (types 444., 484..) or on the shaft of pole (types 446., 486..) – both of \varnothing 60 mm. Max. section of connecting conductors 2.5 mm².

Accessories (on order): bracket 3-99.10222 for fixing on wall or bracket 4-99.10230 for fixing on concrete pole.

Spare parts (on order): protective cover 142.5630, electronic ballast Ecolum EC4-70.

Types according fixing on		Recommended light source	Weight kg	Fuse	El. ballast	
bracket:	shaft:					
444 33 01	446 31 01	LP sodium discharge lamp	SOX	35	5.3	
444 33 02	446 31 02					
444 34 70	446 34 70	HP sodium discharge lamp	NAV	70	4.3	
484 01 36	486 01 36	Compact fluorescent lamp	DULUX L	36	4.5	
484 02 36	486 02 36					4.8
484 03 36	486 03 36					4.8
484 05 36	486 05 36	2 x compact fluorescent lamp	DULUX L	36	5.5	
484 05 37	486 05 37					5.8
484 06 36	486 06 36					-
484 06 37	486 06 37					-



			IP 65	230 V 50 Hz		Carton (mm/pcs) 650 x 200 x 220 / 1	t _a 25 °C	ČSN EN 60598-1 60598-2-3	
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PLASTIC POLES

with steel core (incl. arms)

Type S - rich stylish ornamented

Use: The pole is designed for a decorative lighting in parks, orchards, squares, pedestrian zones and other public areas. It is at high aesthetic level, with good stability and service life. It is resistant to weather conditions, corrosion, salts, ammonia, UV light. Its low weight makes transportation and electric fitting easier.

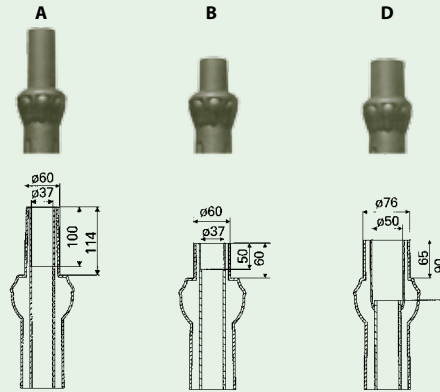
Technical description: The pole is made of mutually complementing materials: welded steel tubes, polyurethane foam and surface plastic. The load bearing structure consists of a steel tube which is welded on a steel stand. Maximum number of five different plastic elements can be fitted on the structure. PE mass is injected into the space between the structure and plastic elements. The pole is anchored onto the structure Z built-in the ground (see page 41). The pole end (marked A, B, D) differs at various luminaires and arms S options (end type A only).

Colour shades: The pole is supplied in black colour as standard. Other colours on request.

Accessories: Stylish plastic arms made of steel pipes covered with surface plastic can be supplied for the pole with end type A.

Types	Length (mm)	Weight (kg)	Structure Z	
			type	stand ϕ
S-13	1 400	10.0	Z-20	225 mm
S-21	2 055	17.5	Z-30	300 mm
S-21 W	2 055	23.0		
S-22	2 090	17.0		
S-23	2 655	17.0		
S-30	2 765	23.5		
S-30 W	2 765	27.5	Z-40	300 mm
S-31	3 320	27.5		
S-31 W	3 320	29.0		
S-32	3 355	27.0		
S-40	4 030	34.0		
S-40 W	4 030	37.0		
S-52 *	4 735	42.0		
S-52 W *	4 735	45.0		
S-54 *	5 285	44.0		
S-54 W *	5 285	47.0		

End types:



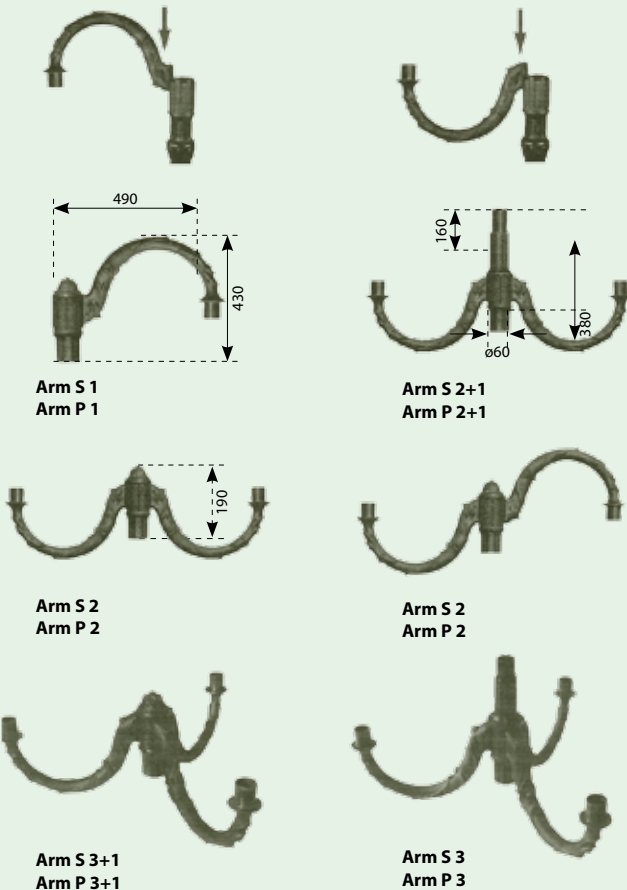
Cut through pole:



W = pole is made with a door for electrical net

* = with end type A only

Fixing of arms:



Note: arm S for poles S (page 40), arm P for poles SP (page 41).



PLASTIC POLES with steel core (incl. arms)

Type SP - smooth (not ornamented)

Use: The pole is designed for a decorative lighting in parks, orchards, new squares and pedestrian zones and other public areas. It is at high aesthetic level, with good stability and service life. It is resistant to weather conditions, corrosion, salts, ammonia, UV light. Its low weight makes transportation and electric fitting easier.

Technical description: The pole is made of mutually complementing materials: welded steel tubes, polyurethane foam and surface plastic. The load bearing structure consists of a steel tube which is welded on a steel stand. Maximum number of five different plastic elements can be fitted on the structure. PE mass is injected into the space between the structure and plastic elements. The pole is anchored onto the structure Z built-in the ground. The pole end (marked A, B, D) differs at various lights and arms P options (end type A only) - see page 40.

Colour shades: The pole is supplied in white or black colours as standard. Other colours on request.

Accessories: Stylish plastic arms made of steel pipes covered with surface plastic can be supplied for the pole with end type A.

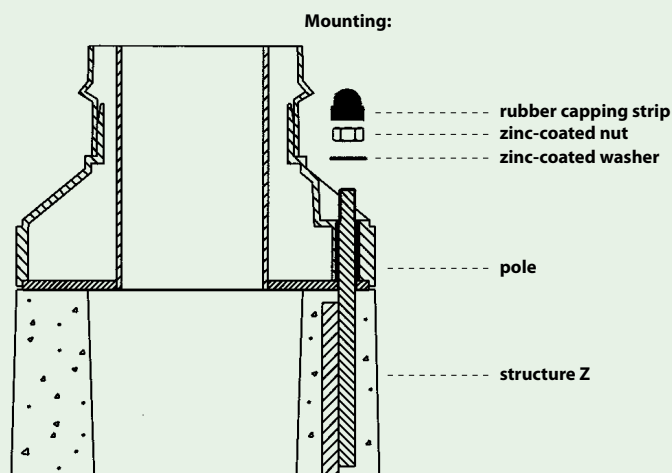
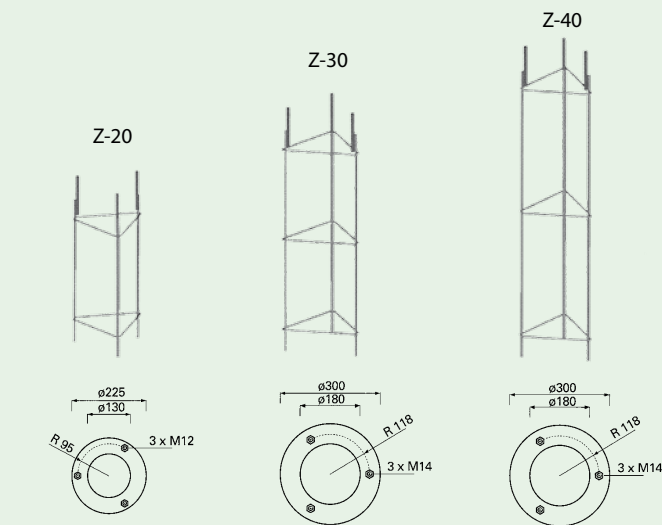
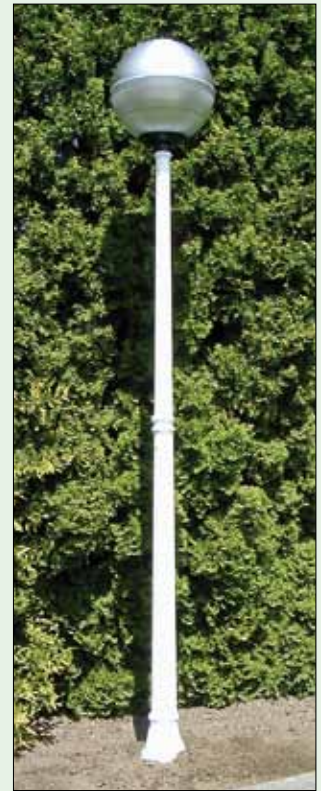
Types	Length (mm)	Weight (kg)	Structure Z
SP-2	2 880	18.5	Z-20
SP-3	3 735	31.0	Z-40
SP-3 W	3 735	37.0	
SP-4 W	4 645	44.0	

W = pole is made with a door for electrical net.

Cut through pole:



Structure Z types	Height (mm)	Weight (kg)	Stand diameter (mm)
Z-20	500	1.5	225
Z-30	800	3.0	300
Z-40	1 100	4.0	



ILLUMINATIVE POLES SAM, SAP

Use: For illumination of parking-sites, pats, pavements in business centres and housing estates. Also for decorative illumination of representative entrances or inner areas in buildings.

Technical description: Body from Al cylinder of \varnothing 150 mm treated with polyester powder paint. Electric components are fixed in the upper part. Light-active cover is made from polycarbonate opal cylinder (SAM) or from polycarbonate clear cylinder with shield grid (SAP). Pole can be fixed on hard subgrade by the help of cramps and wood screws, into construction type Z-0 buried in concrete or the pole can be buried into the ground (version "dz"). Upper part of pole is the round one as standard version, version "/P" is delivered with flat upper part (see pictures below).

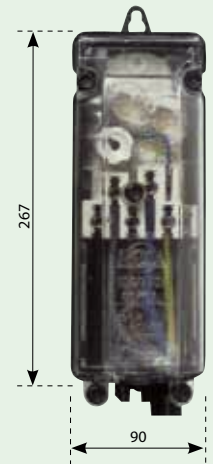
Accessories (on order): terminal block TB-1

On special order only: illuminative pole with degree of protection IP 65 (protective class II)

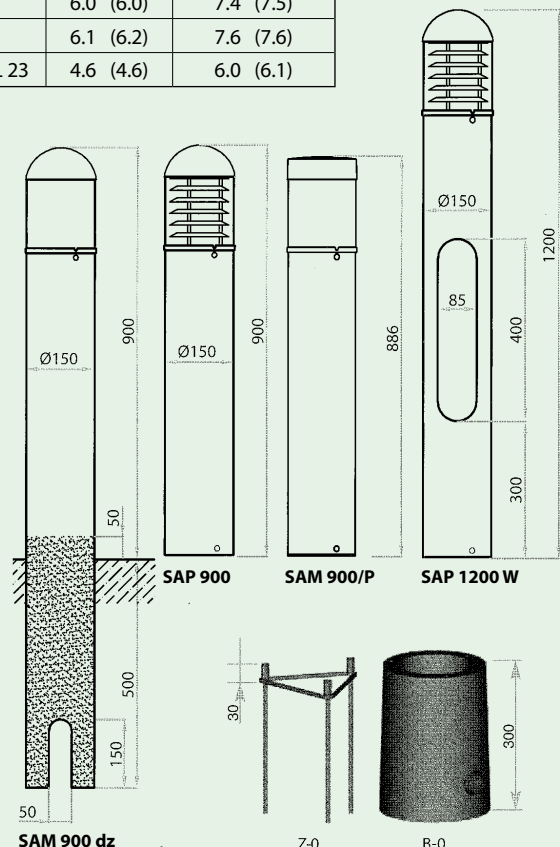
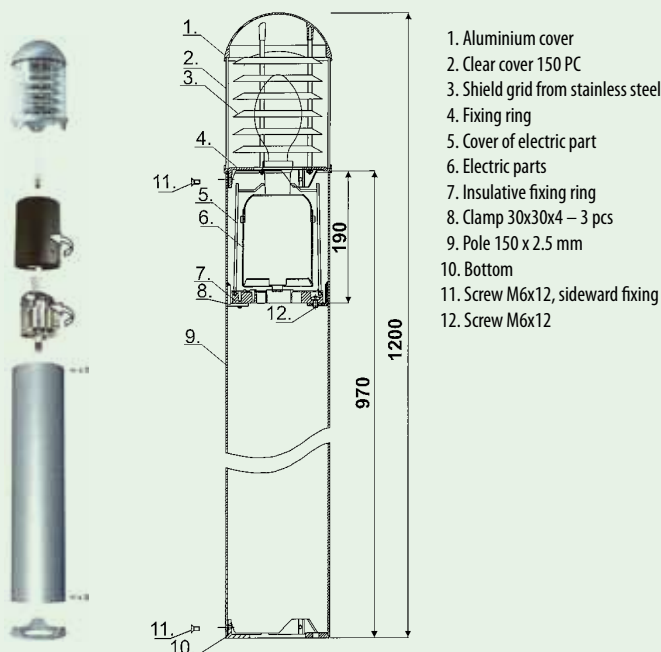


Types	Recommended light source	Weight (kg)	Version „dz“ (kg)
SAM (SAP) 600 - NAV 50	HP sodium lamp NAV-50	3.5 (3.6)	4.7 (5.8)
SAM (SAP) 600 - NAV 70	HP sodium lamp NAV-70	3.8 (3.8)	4.9 (6.1)
SAM (SAP) 600 - HQI 70	HP metal halide lamp HQI-70	3.8 (3.8)	4.9 (6.1)
SAM (SAP) 600 - HQI 100	HP metal halide lamp HQI-100	4.0 (4.0)	5.1 (6.2)
SAM (SAP) 600 - Dulux EL 23	Compact fluorescent lamp Dulux EL 23	2.4 (2.5)	3.6 (4.6)
SAM (SAP) 900 - NAV 50	HP sodium lamp NAV-50	4.5 (4.6)	5.8 (5.8)
SAM (SAP) 900 - NAV 70	HP sodium lamp NAV-70	4.7 (4.8)	6.0 (6.1)
SAM (SAP) 900 - HQI 70	HP metal halide lamp HQI-70	4.8 (4.8)	6.1 (6.1)
SAM (SAP) 900 - HQI 100	HP metal halide lamp HQI-100	5.0 (5.0)	6.2 (6.3)
SAM (SAP) 900 - Dulux EL 23	Compact fluorescent lamp Dulux EL 23	3.4 (3.5)	4.7 (4.7)
SAM (SAP) 1200 - NAV 50	HP sodium lamp NAV-50	5.5 (5.5)	6.8 (6.8)
SAM (SAP) 1200 - NAV 70	HP sodium lamp NAV-70	5.7 (5.7)	7.0 (7.1)
SAM (SAP) 1200 - HQI 70	HP metal halide lamp HQI-70	5.8 (5.8)	7.1 (7.1)
SAM (SAP) 1200 - HQI 100	HP metal halide lamp HQI-100	6.0 (6.0)	7.2 (7.3)
SAM (SAP) 1200 - Dulux EL 23	Compact fluorescent lamp Dulux EL 23	4.4 (4.4)	5.7 (5.7)
SAM (SAP) 1200 W - NAV 50	HP sodium lamp NAV-50	5.7 (5.7)	7.2 (7.2)
SAM (SAP) 1200 W - NAV 70	HP sodium lamp NAV-70	5.9 (6.0)	7.4 (7.4)
SAM (SAP) 1200 W - HQI 70	HP metal halide lamp HQI-70	6.0 (6.0)	7.4 (7.5)
SAM (SAP) 1200 W - HQI 100	HP metal halide lamp HQI-100	6.1 (6.2)	7.6 (7.6)
SAM (SAP) 1200 W - Dulux EL 23	Compact fluorescent lamp Dulux EL 23	4.6 (4.6)	6.0 (6.1)

Terminal block TB-1



W = pole is made with a door for electrical net



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Selected technical information regarding flameproof luminaires

1. Basic regulations related to market introduction of electrical luminaires

- 1.1 Law No. 22/1997 Coll., as amended**, about technical requirements for products and about change and amendments of some laws
- 1.2 Decree of the Government No. 173/1997 Coll., as amended**, which determines the selected products for conformity evaluation
- 1.3 Decree of the Government No. 17/2003 Coll., as amended**, which determines the technical requirements for electrical equipment with low voltage
- 1.4 Decree of the Government No. 616/2006 Coll., as amended**, which determines the technical requirements for products from the point of view of their electromagnetic compatibility
- 1.5 Decree of the Government No. 23/2003 Coll., as amended**, which determines the technical requirements for equipment and protective systems determined for use in potentially explosive atmosphere

2. List of basic harmonized standards for luminaires

2.1 Luminaires - general:

ČSN EN 60598-1	Luminaires, Part 1: General requirements and tests
ČSN EN 60598-2-1	Luminaires, Part 2: Particular requirements, Section 1: Fixed general purpose luminaires
ČSN EN 60598-2-2	Luminaires, Part 2: Particular requirements, Section 2: Recessed luminaires
ČSN EN 60598-2-3	Luminaires, Part 2-3: Particular requirements - Luminaires for road and street light
ČSN EN 60598-2-4	Luminaires, Part 2: Particular requirements, Section 4: Portable general purpose luminaires
ČSN EN 60598-2-5	Luminaires, Part 2: Particular requirements, Section 5: Flood lights
ČSN EN 60598-2-22	Luminaires, Part 2: Particular requirements, Section 22: Luminaires for emergency lighting
ČSN EN 60598-2-23	Luminaires, Part 2: Particular requirements, Section 23: Extra low-voltage lighting systems for filament lamps
ČSN EN 60598-2-24	Luminaires, Part 2: Particular requirements, Section 24: Luminaires with limited surface temperatures

2.2 Flameproof equipment:

ČSN EN 60079-0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
ČSN EN 60079-1	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure „d“
ČSN EN 60079-6	Explosive atmospheres - Part 6: Equipment protection by oil immersion „o“
ČSN EN 60079-7	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety „e“
ČSN EN 60079-15	Electrical apparatus for explosive gas atmospheres - Part 15: Construction, test and marking of type of protection „n“ electrical apparatus
ČSN EN 61241-0	Electrical apparatus for use in the presence of combustible gas - Part 0: General requirements
ČSN EN 61241-1	Electrical apparatus for use in the presence of combustible gas - Part 1: Protection by enclosure „tD“

2.3 General purpose luminaires and flameproof equipment:

ČSN EN 60529	Degree of protection provided by enclosures (IP Code)
ČSN EN 61140	Protection against electric shock - Common aspects for installation and equipment
ČSN EN 55015	Limits and methods for measurement of radio disturbance characteristics of electrical lighting and similar equipment
ČSN EN 61547	Equipment for general lighting purposes EMC – Immunity requirements
ČSN EN 61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits for Harmonics. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
ČSN EN 61000-3-3	Electromagnetic compatibility (EMC) - Part 3-3: Limitations - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection
ČSN 33 2000-3	Electrotechnical regulations. Electrical equipment and installations. Part 3: Assessment of general characteristics

2.4 Setting regulations for application of QMS:

ČSN EN ISO 9001	Quality management systems - Requirements
ČSN EN 13980	Potentially explosive atmosphere - Application of QMS

2.5 Selection of setting regulations for explosive gas atmosphere and for atmosphere with presence of combustible dust:

ČSN EN 50281-1	Electrical apparatus for use in the presence of combustible dust - Part 1-1: Electrical apparatus protected by enclosure. Construction and testing.
ČSN EN 60079-10	Electrical apparatus for explosive gas atmospheres - Part 10: Classification of hazardous areas
ČSN EN 60079-14	Electrical apparatus for explosive gas atmospheres - Part 14: Electrical installations in hazardous areas (other than mines)
ČSN EN 60079-17	Explosive atmospheres - Part 17: Electrical installations inspection and maintenance
ČSN EN 60079-31	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure „t“
ČSN EN 61241-10	Electrical apparatus for use in the presence of combustible dust - Part 10: Classification of areas, where are, or where can be combustible dust
ČSN EN 61241-14	Electrical apparatus for use in the presence of combustible dust - Part 14: Selection and installation
ČSN EN 61241-17	Electrical apparatus for use in the presence of combustible dust - Part 17: Inspection and maintenance of electrical installations in hazardous areas (other than mines)

3. Marking of luminaires of ELEKTROSVIT Svatobořice, a. s. company according to ČSN EN 60598-1

Following data must be permanently and visually marked on the luminaire:

- 3.1 Mark of origin** (trade mark, manufacturer's mark, name of responsible seller).
- 3.2 Nominal voltage in Volts** (at bulb luminaires only if it differs from 250 V).
- 3.3 Nominal highest ambient temperature t_a** , if it differs from 25 °C.
- 3.4 Mark of class of protection I or II or III** (if the luminaire belongs to the rate of protection I, the mark is not shown).
- 3.5 Marking of decree of protection against intrusion of dust, solid foreign bodies and water, by IP Code**
This is a coding system, which designates the rate of protection by enclosure against the touch of dangerous parts, against intrusion of solid foreign bodies or against intrusion of water, and which provides also next information connected with this protection.

Marking of protection by enclosure by the IP-Code arrangement:

Degree of protection of the electrical equipment indicates its constructional protection against intrusion of water or foreign solid bodies and against touch of dangerous parts.

Degree of protection is marked by letters IP (International Protection) and is defined according to ČSN EN 60529. There are two characteristic numbers after IP letters, or added and additional letters eventually, which describe method of test

Description scheme: IP 65 XY

- 1 First characteristic number marks degree of protection of the person against touch of dangerous parts and against intrusion of foreign solid bodies
 - 2 Second characteristic number marks degree of protection against intrusion of water.
- X Added letter (optional) marks degree of protection of the person against touch of dangerous parts, if the real protection of the person against touch of dangerous parts is higher than protection marked by the first characteristic number, or if the first characteristic number is substituted by letter X. It can vary between A, B, C or D letters.
- Y Additional letter (optional) is used for additional information; currently used letters are H, M, S, W.

Types of protection and its meaning:

First number in degree of protection

against touch of dangerous parts
IP 0x without protection
IP 1x by the back side of the hand
IP 2x by the fingers
IP 3x by the tools, wires etc.
IP 4x by the tools, wires etc.
IP 5x full protection against contact
IP 6x total protection against contact

Degree of protection

against foreign solid bodies
without protection
against large solid bodies with $\varnothing \geq 50$ mm
against solid foreign bodies with $\varnothing \geq 12.5$ mm
against small foreign bodies with $\varnothing \geq 2.5$ mm
against small foreign bodies with $\varnothing \geq 1$ mm
against interior injurious dust deposits (partial protection – dust cannot influence operation of the equipment)
total protection against penetration of dust

Second number in degree of protection

IP x0 without protection
IP x1 protection against vertical water drips
IP x2 protection against water drips up to 15° angle
IP x3 protection against diagonal water drips up to 60° angle
IP x4 protection against splashed water from all directions
IP x5 protection against water (out of a nozzle) from all directions
IP x6 protected against water (intensively spouting) from all directions and against temporary flooding
IP x7 protected against temporary immersion (limited by time and pressure)
IP x8 protected against permanent immersion (under water pressure)

Degree of protection against intrusion of water

Added letter

A	protected against touch of back side of the hand; tested by the ball with $\varnothing 50$ mm
B	protected against touch by finger; tested by the testing articulated finger with $\varnothing 12$ mm and length 80 mm
C	protected against touch by tool; tested by the probe with $\varnothing 2.5$ mm and length 100 mm
D	protected against touch by wire; tested by the probe with $\varnothing 1.0$ mm and length 100 mm

Additional letter

H	high-voltage equipment
M	motion during water test
S	silence during water test
W	weather conditions

1.1 Type number of the product

1.2 Nominal power consumption, kind of light source, number of light source, maximum power consumption (n x max. W), at discharge lamp and fluorescent lamp - current and $\cos \Phi$.

1.3 Symbol according to the material of basis surface, for which the luminaire is determined:

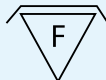
Luminaires suitable for direct installation to current combustible bases:



Luminaires suitable for direct installation to current non-combustible bases:



Luminaires suitable for direct installation to current combustible bases, if the thermally insulating material may cover the luminaire:

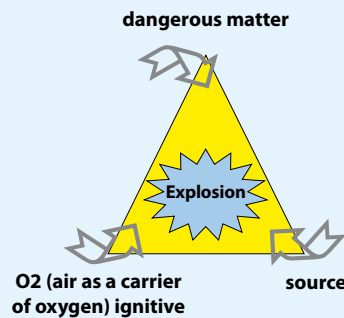


1.4 Symbol for use of special light sources, especially high-pressure sodium discharge lamps with integrated igniter:



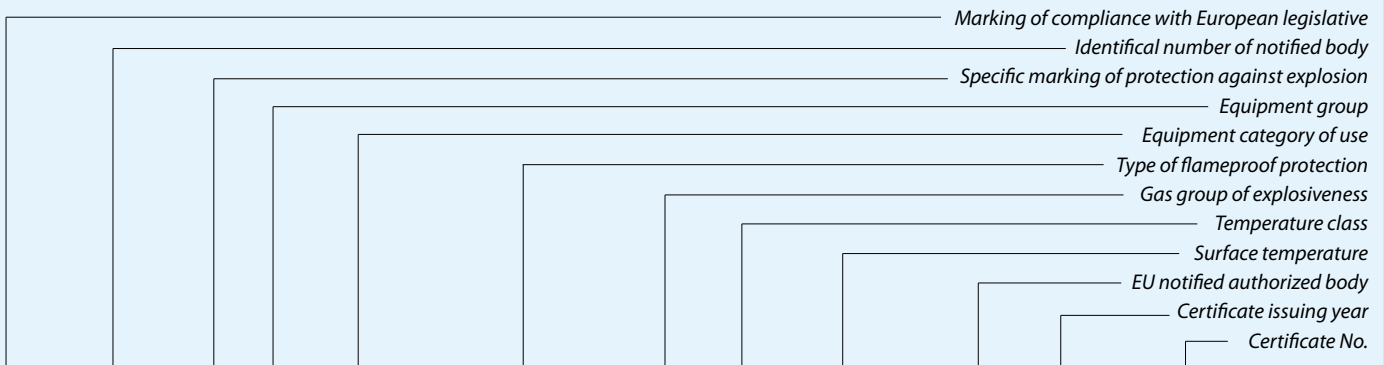
4. Marking of flameproof luminaires of ELEKTROSVIT Svatobořice, a. s.

Three conditions are necessary for rise of explosion:



If a proper equipment with prescribed protection (which limits the combustible source) is selected according to installation regulations ČSN EN for the area, where the dangerous matter occurs or can occur, then it is possible to avoid the danger of explosion.

Marking of Ex luminaires:



CE 1026 Ex II 2GD Ex de tD IIC T4 T80°C FTZÚ 04 ATEX 0054

Besides the marking according to the figure, the flameproof equipment shall be further marked as follows:

- name of manufacturer or its registered trade mark;
- address of the manufacturer;
- type designation of the product;
- year of production;
- production serial number;
- degree of protection by enclosure – IP Code;
- if, according to test laboratory opinion, it is necessary to warn to special conditions for safe use, then behind the data about certificate the letter X is added. Then the manufacturer must ensure that the requirements for special conditions for safe use will be supplied to the buyer together with further important information;
- next marking required by standards for design of electrical equipment.

4.1. Classification of equipment:

I - Equipment determined for use in underground spaces of mines and surface installations of these mines (with occurrence of methane).

Equipment group:

M1 - The equipment is determined for use in underground spaces of mines and surface installations of these mines, which are endangered by methane or combustible dust.

M2 - The equipment is determined for use in underground spaces of mines and surface installations of these mines, where exist a risk of endangering by methane or combustible dust.

II - Equipment determined for use in other spaces, then underground spaces of mines and surface installations of these mines endangered by methane or combustible gas.

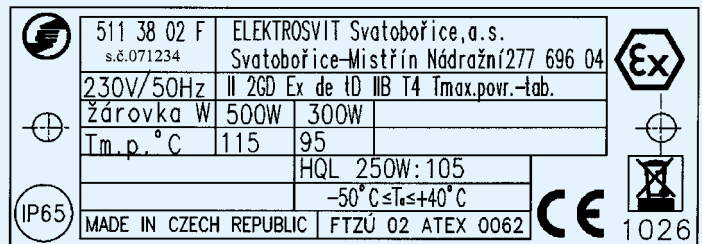
Equipment category:

1 - The equipment is determined for use in spaces, in which the explosive atmosphere made by gases, fumes and fogs or by dust-air compound is present permanently, for a long time, or often.

2 - The equipment is determined for use in spaces, in which the rise of explosive atmosphere made by gases, fumes and fogs or by dust-air compound is probable.

3 - The equipment is determined for use in spaces, in which the rise of explosive atmosphere made by gases, fumes and fogs or by dust-air compound is not probable, and if the explosive atmosphere arises, it will be present only rarely, and only for short time period.

Example of type label of Ex equipment:



4.2. Category of equipment and its use in potentially explosive atmosphere:

Marking of electrical equipment		Use in spaces			Designation of ambient effects
Class I category:	Class II category:				
M1	-	Dangerous atmospheric conditions 1 (explosive atmosphere) + Dangerous atmospheric conditions 2 (environment with danger of explosion)			BE3N2
M2	-	Dangerous atmospheric conditions 2 (environment with danger of explosion)			
Gases	1G	-	Zone 0, Zone 1, Zone 2		
	2G	-	Zone 1, Zone 2		
	3G	-	Zone 2		
Dusts	1D	-	-	Zone 20, Zone 21, Zone 22	BE3N1
	2D	-	-	Zone 21, Zone 22	
	3D	-	-	Zone 22	

Definition of single spaces:

Spaces with danger of explosion of coal dust and methane in underground and surface mines:

Dangerous atmospheric conditions 1 (explosive atmosphere): underground part of mines and those parts of surface installations of mines, which are endangered by fire damp and/or combustible dust.

Dangerous atmospheric conditions 2 (environment with danger of explosion): underground part of mines and those parts of surface installations of mines, which may be endangered by fire damp and/or combustible dust (here exists a certain probability).

Spaces with danger of explosion of combustible gases and fumes:

ZONE 0: Space, in which the explosive gas atmosphere is present permanently or for long time periods or frequently (for example - spaces of tanks, cases, containers, etc.).

ZONE 1: Space, in which the random occurrence of explosive gas atmosphere is probable during normal operation (e.g., spaces around insufficiently tight outcomes, pumps, valves, etc.).

ZONE 2: Space, in which the occurrence of explosive gas atmosphere is not probable during normal operation, but if such atmosphere arises, it will persist only for short time period (e.g., spaces around flange connections with current gasket).

Spaces with danger of explosion of combustible dusts:

ZONE 20: Space, in which the explosive atmosphere of turbid dust with the air is present permanently, or for long periods, or frequently (e.g., inside reservoirs, piping, etc.).

ZONE 21: Space, in which the explosive atmosphere of turbid dust with the air may occur randomly at normal operation.

ZONE 22: Space, in which, during normal operation, the rise of explosive atmosphere of turbid dust with the air is not considered, and if such atmosphere arises, it persists only for short time period.

Spaces with danger of explosion or of fire of explosives:

Decree of the Government No. 23/2003 Coll. does not relate to electrical equipment determined for places with danger of fire or explosion of explosives. ČSN 33 2340 is valid for use of electrical equipment in these spaces.

Spaces with danger of explosion or of fire of explosives			Designation of external effects
Degree of protection of the equipment	Live parts giving the impulse to explosion:		
		Any time	Exceptionally
IP 43	-	V1	BE3N3
IP 44	V1	V2	
IP 54	V2	V3	
IP 65	V3	-	

In the space with danger of explosion or fire of explosives there may be used the equipment with corresponding protection according to the table above and the temperature class derived from appropriate explosive, which occurs in this space (there can be used the equipment only with temperature class T6, T5, T4). In many cases, this is advantageous to use certified Ex luminaires.

Environment V1: Environment, in which the explosive does not produce dust, it does not evaporate, and it does not sublimate, and where a direct initiation by electrical current of explosive may occur only under wholly exceptional situations or circumstances (e.g., warehouses of explosives in shipment packaging).

Environment V2: Environment, in which the explosive produces dust, evaporates, or sublimates only exceptionally and the contact of explosive with electrical equipment may be only exceptional.

Environment V3: Environment, in which the explosive produces dust, evaporates, or sublimates any time and the contact of explosive with electrical equipment may be permanent.

4.3. Types of flameproof enclosures

4.3.1 Flameproof enclosure
("d", according to ČSN EN 60079-1)



At explosion of explosive mixtures inside the enclosure, the enclosure will withstand the pressure of explosion and will prevent from the extension of explosion to surrounding atmosphere. Examples of use: distributors, motors, luminaires, and transformers.

4.3.2 Increased safety
("e", according to ČSN EN 60079-7)



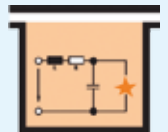
Use of such measures, which will prevent, with high level of safety, from not allowed increase of temperature and rise of sparks or arc on inside and outside parts of electrical equipment, which does not create such statuses under normal operating conditions. Examples of use: terminal boxes, luminaires, and distributors, heating cables.

4.3.3 Type of protection "p"
("p", according to ČSN EN 60079-2)



It prevents from intrusion of surrounding atmosphere to closure of electrical equipment through maintenance of protective gas inside the closure on pressure higher, than in surrounding atmosphere. Examples of use: large equipment or whole rooms.

4.3.4 Intrinsic safety
("i", according to ČSN EN 60079-25)



Circuit safe against sparks does not create sparks or thermal effects, which would be able to cause the ignition of explosive gas atmosphere. Equipment safe against sparks has all circuits are against sparks. Examples of use: measuring and regulation equipment.

4.3.5 Oil immersion
("o", according to ČSN EN 50015)



Electrical equipment or its part is immersed in oil by such way, that the explosive atmosphere, which may arise above the oil or outside the closure, cannot take fire. Examples of use: transformers, heating elements.

4.3.6 Powder filling
("q", according to ČSN EN 50017)



The closure of electrical equipment is filled up with material with fine granulometric composition so that in assumed operation conditions the arc inside the closure cannot occur, as well as ignition of surrounding atmosphere. Examples of use: transformers.

4.3.7 Encapsulation
("m", according to ČSN EN 60079-18)



Parts, which can cause the ignition of explosive atmosphere by sparking or temperature, are closed in sealing matter so that the ignition of explosive atmosphere cannot occur. Examples of use: small electronic equipment.

4.3.8 Type of protection "n" (according to ČSN EN 60079-15)
At normal operation and at determined abnormal conditions it assures that the equipment is not able to ignite surrounding atmosphere. Examples of use: luminaires, beacons, motors, and terminal units.

4.3.9 Protections of electrical equipment in spaces with combustible dust

- Protection by pressurization ("pD", according to ČSN EN 61 241-4)
- Protection by closure ("tD", according to ČSN EN 61241-1)
- Protection by intrinsic safety ("iaD" or "ibD", according to ČSN EN 61 241-11)
- Protection by encapsulation ("mD", according to ČSN EN 61 241-18)

4.4 Class of explosiveness and its classification

For flameproof enclosure, the class of explosiveness is determined according to maximum experimental safe width of the gap (MESG) for given explosive compound.

Class of explosiveness	MESG	Example of gas
IIA	MESG > 0.9 mm	propane
IIB	0.5 < MESG < 0.9	ethylene
IIC	MESG < 0.5	hydrogen

4.5 Temperature classes

Electrical equipment must be selected so that the maximum surface temperature will not reach the flash point of any gas or fume, which may be present.

Temperature class of electrical equipment	Maximum surface temperature of electrical equipment	Flash point of gas or fume
T1	450 °C	> 450 °C
T2	300 °C	> 300 °C
T3	200 °C	> 200 °C
T4	135 °C	> 135 °C
T5	100 °C	> 100 °C
T6	85 °C	> 85 °C

4.6. Surface temperature

It is the highest temperature, which occurs in operation in the worst conditions on any part of the surface of electrical equipment, which could cause the ignition of surrounding explosive atmosphere. Maximum surface temperature of the equipment must not exceed the lowest temperature of ignition of given explosive atmosphere.

4.7. Instructions











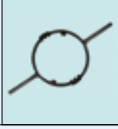


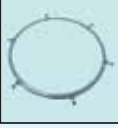



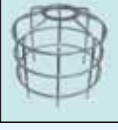

















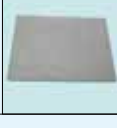




















- All Ex equipment shall be delivered with instructions, which contain at least these further shown data:
- recapitulation of data, which are marked on the equipment, except of serial number;
- data regarding the maintenance;
- instructions for safe setting into operation, use, assembling, dismantling, installation and setting;
- list of standards, including date of issue, for which the conformity statement of the equipment is declared;
- instructions for use must be written by producer or his authorized representant on one of the official languages of the European Community

List of ATEX certificates

Model	Types	Number of ATEX certificate incl. Supplements Validity	Page		
MINEX I	511 37 01	FTZÚ 02 ATEX 0158 + Supplement No. 1 - 2 Validity up to 31.03.2015.	10		
	541 33 01	FTZÚ 02 ATEX 0159 + Supplement No. 1 Validity up to 31.01.2013.			
	541 33 02	FTZÚ 02 ATEX 0160 + Supplement No. 1 Validity up to 31.01.2013.			
	581 04 01	FTZÚ 02 ATEX 0161 + Supplement No. 1 Validity up to 31.01.2013.			
MINEX II	511 38 01	FTZÚ 02 ATEX 0162 + Supplement No. 1 Validity up to 30.11.2012.	11		
SIMPLEX	511 14 07 n 511 14 07 nS 511 14 07 nSt 511 14 07 nt	FTZÚ 03 ATEX 0334 + Supplement No. 1 - 4 Validity up to 31.03.2015.	18		
	BILUX	511 32 01 n 511 32 01 nF 511 32 01 nSt 511 32 01 nt		FTZÚ 03 ATEX 0174 X + Supplement No. 1 - 4 Validity up to 31.03.2015.	20
		581 01 02 n 581 01 02 nt 581 01 03 n 581 01 03 nt		FTZÚ 03 ATEX 0335 X + Supplement No. 1 - 2 Validity up to 31.03.2014.	
TRILUX	511 33 02 n 511 33 02 nF 511 33 02 nHt 511 33 02 nSt 511 33 02 nt	FTZÚ 03 ATEX 0175 X + Supplement No. 1 - 4 Validity up to 31.03.2015.	19		
LINEX	531 31 05 nt 531 31 06 nt 531 31 09 nt	FTZÚ 05 ATEX 0381 Validity up to 31.01.2012.	22		
BOX 2	604.6 ntA 604.6 ntB	FTZÚ 03 ATEX 0176 + Supplement No. 1 - 2 Validity up to 31.03.2014.	22		
Safelux Multisafe		FTZÚ 03 ATEX 0172 X + Supplement No. 1 Validity up to 31.10.2014.	20		

Model	Types	Number of ATEX certificate incl. Supplements Validity	Page
ORION	511 37 02 511 37 02 F 511 37 02 K 511 37 02 KF	511 37 02 KS 511 37 02 Kt 511 37 02 S 511 37 02 t	12
	541 33 03 541 33 03 K	541 33 03 Kt 541 33 03 t	
	541 33 04 541 33 04 F 541 33 04 K	541 33 04 KF 541 33 04 Kt 541 33 04 t	
	541 33 06	541 33 06 K	
	581 04 02 581 04 02 K	581 04 02 Kt 581 04 02 t	
	SIRIUS	511 38 02 511 38 02 F 511 38 02 K	511 38 02 KF 511 38 02 Kt 511 38 02 t
HERKULES	541 38 03 541 38 03 K	541 38 03 Kt 541 38 03 t	16
	541 38 04 541 38 04 K	541 38 04 Kt 541 38 04 t	
	541 38 05 541 38 05 Ft 541 38 05 K	541 38 05 Kft 541 38 05 Kt 541 38 05 t	
	541 38 06 541 38 06 Ft 541 38 06 K	541 38 06 Kft 541 38 06 Kt 541 38 06 t	
	541 38 07 541 38 07 Ft 541 38 07 K	541 38 07 Kft 541 38 07 Kt 541 38 07 t	
	541 38 08 541 38 08 K	541 38 08 Kt 541 38 08 t	
	205.0 205.0 F	205.0 t 205.1	
	BOX 1		

Spare parts and accessories

Clear cover - lower 042.5549/1 KOULE A KOULE B		Bracket Ø 60 mm 2-99.5581/1 RAMINKO, CITY STREET		Flange with glass 3-99.5722/1 - ORION 3-99.5741/1- MINEX I		Welded-on holder 4-99.6019 SPOT I SPOT II	
Opal cover 042.5550/1 - lower 1-99.9266/1 - upper KOULE A KOULE B		Flange with glass 2-99.5862/1 - SIRIUS, HERKUL. (stand., t, K) 2-99.5862F/1 - versions F 2-99.5917 - MINEX II		Fixing element Ø 60 mm 3-99.6026 RAMINKO STREET		Connecting box 4-99.6028 TITAN HALSPOT I, HALSPOT II	
Protective wire guard 1-99.5856 MINEX II SIRIUS, HERKULES		Circle border + glass + sealing 2-99.6107 - KOREX 2-99.7783/1 - MERIDIAN		Key M 205x2 3-99.6158/1 MINEX I, ORION 3-99.6159 - MINEX II, SIRIUS		Ceiling suspension 4-99.7995 - SIMPLEX, ORION 4-99.8103 - MINEX I	
Protective wire guard 1-99.5984/1 TRILUX		Circle border + glass + sealing 2-99.7043/1 - rubber seal. SPOT I, SPOT II 2-99.7043/2 - silicon seal. SPOT I		Flange cable gland 3-99.6170/1 MINEX I MINEX II		Cover 4-99.8105/1 RAMINKO	
Protective wire guard 1-99.5992/1 BILUX SAFELUX, MULTISAFE		Protective wire guard 2-99.7461 MINEX I ORION		Plastic clamp 317.5016/1 KOULE A, KOULE B		Metal clip 4-99.8470/01 - steel 4-99.6180/01 - stainless FARMER I, II, III	
Protective wire guard 1-99.8534/1 TURTLE		Reflector 2-99.7872/1 HALSPOT I (723 01 02)		Protective glass 332.5018 SIMPLEX		Protective cover 4-99.9012/1 446 10 ..	
Protective wire guard 1-99.8535/1 TUB		Fixing element 2-99.9267 - 2-arm KOULE B (2-99.9268 - 3- arm) (2-99.9269 - 4-arm)		Lower cover 342.2554 KUZEL		Construction spanner 401.A - M5A 402 - M8 404 - M12 (BOX 1) Primarily for flam. lum.	
Protective wire guard 1-99.9617 - PMMA PRACHO 142.5511/2 - PC PRACHO, LINEX		Protective glass 232.5068/1 FARMER I, II, III		Plastic clamp 4-99.10213/1 PRACHO		Silamide nut 412.2560 SADOVKA KUZEL	
Protective glass 132.5069 BILUX, TUB, SAFELUX, MULTISAFE		Protective glass 232.5070 TRILUX, TURTLE		Bracket Ø 60 mm 4-99.10230 RAMINKO, CITY STREET, ATTACHE		Protective glass 432.5008 - HALSPOT I 432.5035 - HALSPOT II	
Protective wire guard 142.5630 - PC ATTACHE		Upper cover 242.2587 (H or S) SADOVKA		Stainless steel clamp 4-99.6188/1 LINEX PRACHO		Blinding plug 16 547.2540/1 MINEX I, MINEX II BOX 1	
Al lampshade 154.5041/02 MINEX II, SIRIUS, HERKULES		Lower cover 242.5024/1 - up to 1995 342.2584 - since 1995 SADOVKA		Protective cover 4-99.5501 541 16 ..		Cable gland HSK-K-Ex M25x1,5 ORION, ORION sig., SIRIUS M20x1,5 HERKULES, BILUX, TRILUX	
Protective wire guard 182.5005 - plastic 182.2540 - polycarbonate FARMER I, II, III		Al lampshade 254.5021/01 SIMPLEX, MINEX I ORION		Lampholder + conductor 290 mm 4-99.5822/1 4-99.5822/1a - with spaghetti insulation HALSPOT I		Blinding plug HSK-V-Ex M25x1,5 ORION, SIRIUS M20x1,5 HERKULES, BILUX, TRILUX	
Circle border + glass + sealing + guard 2-99.3000/1 MERIDIAN		Bracket Ø 60 mm 3-99.10222 RAMINKO, CITY STREET, ATTACHE		Lampholder + conductor 780 mm 4-99.5825/1 4-99.5825/1a - with spaghetti insulation HALSPOT II		Blinding screw V-Ex M25x1,5 ORION, SIRIUS M20x1,5 HERKULES, BILUX, TRILUX	
Springy suspension 2-99.5550 SIMPLEX		Lampholder 3-99.10246 TITAN		Base holder 4-99.5526 SPOT I SPOT II		Blinding screw V-Ms-Ex (for F) M25x1,5 ORION, SIRIUS M20x1,5 HERKULES, BILUX, TRILUX	

Spare parts and accessories

Bracket Ø 60 mm JET 60-60-90		Bracket Ø 60 mm MACH 60		Bracket Ø 60 mm UDS 300, UDS 500, UDS 1000, UDS 1500, UDS 2500		Bracket Ø 60 mm UDS 300 R UDS 500 R	
Reduction Ø 76/60 mm Reduction 76-60		Holder 3-99.6183 HERKULES		Bracketed 338.2735 ORION MINEX I, II		Cable gland HSK-M-Ex BILUX TRILUX	
Electronic ballast Ecolum EC4-70 CITY, STREET, ATTACHÉ		Bracket on wall KR LUCERNA		Fixing arm S 1 - pole S P 1 - pole SP		Fixing arm S 1 - pole S P 1 - pole SP	
Fixing arm S 2+1 - pole S P 2+1 - pole SP		Fixing arm S 3 - pole S P 3 - pole SP		Fixing arm S 3+1 - pole S P 3+1 - pole SP		Fixing arm S 2 - spole S P 2 - pole SP	
Nut of cable gland GM-FS BILUX TRILUX		Nut of cable gland GM-Ms BILUX TRILUX		Cable gland HSK-M-PVDF-Ex TRILUX		Terminal block TB-1 Pole S, Pole SP Illuminative poles SAM Illuminative poles SAP	



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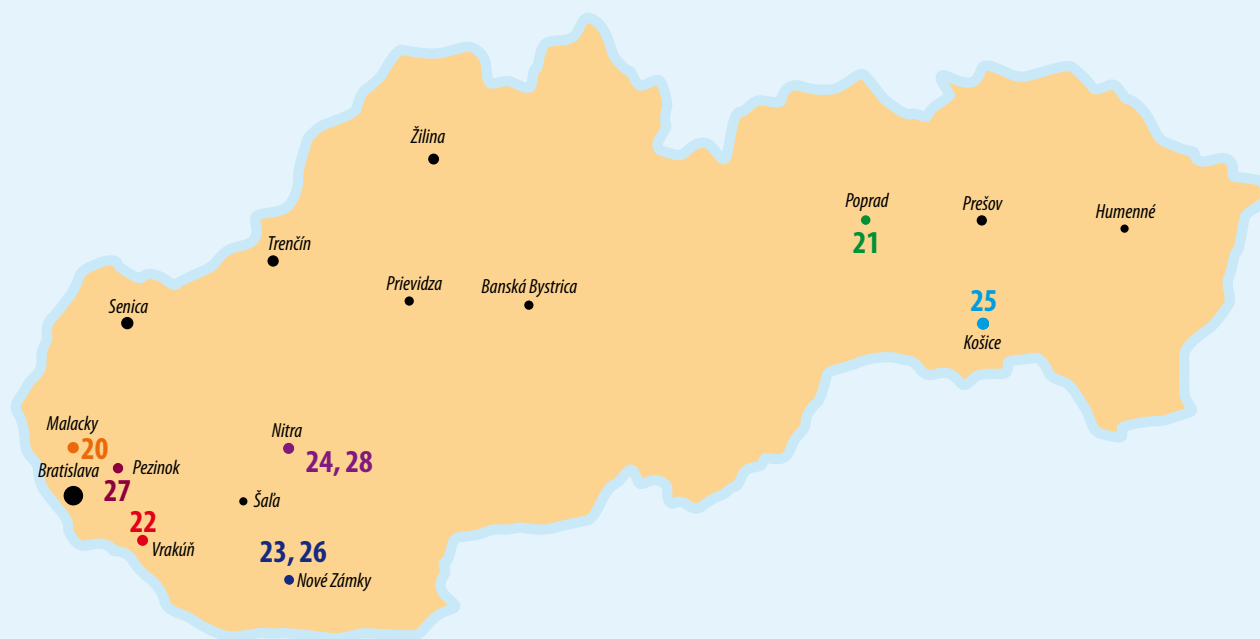
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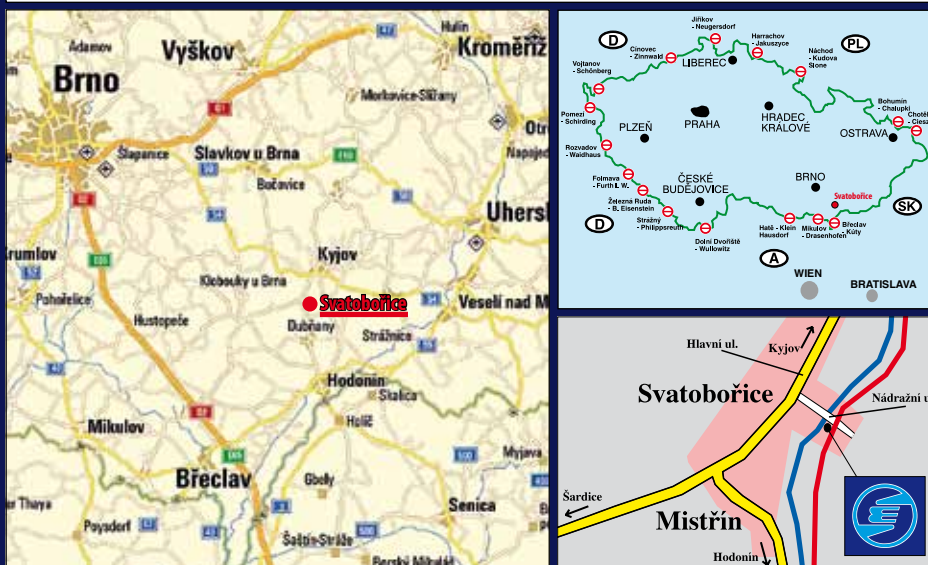
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