



EX-CEILING PENDANT LIGHT FITTINGS AND FLOODLIGHTS

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Field of application of pendant light fittings and floodlights with high pressure discharge lamps in hazardous areas.

Where a lot of light is needed and/or where large complexes or areas have to be illuminated, or where there are high ceilings, these are the ideal situations for pendant light fittings and floodlights.

The main field of operation is the illumination in hazardous explosive environments such as On- and Offshore areas, production and storage buildings or Ex-companies in the chemical industry. Also the illumination of outside areas such as loading zones, harbour areas or even refineries.

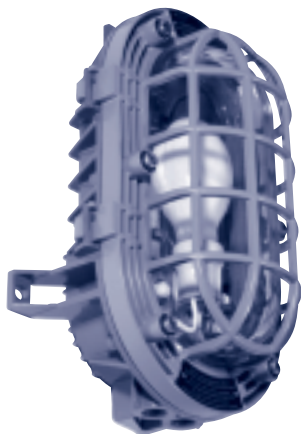


The pendant light fittings and floodlights are usually fitted with high pressure discharge lamps such as Metal halide lamp or Sodium vapour lamps.

They offer a high output of light and a relatively long life span.

Due to environmental protection the use of Mercury Vapor lamps have been forbidden in more and more countries.

The type of lamp may be replaced by other light sources e.g. Metal halide or sodium vapour lamps.



Wall ceiling light fitting AB 05

With the CEAG pendant light fittings and floodlights for the Zones 1, 2, 21 and 22 you have a safety assurance even in difficult environmental conditions such as high and low temperature, high humidity, dusty and aggressive explosive atmospheres.

The high safety standard required is assured for even after a long period of usage time. A long service life and the high reliability factor of the used electrical and mechanical components makes these lamps extremely cost-effective. Especially the innovative illuminant technology of the induction lamps used in the EVQ light fittings guarantees a lamp life expectancy of > 60,000 hours. This makes these light fittings destined for usage in uncomfortable and hard to access areas where one can efficiently minimize the maintenance costs.



Pendant light fitting EVQ for Induction lamps

The easy changing of the lamp, for example in the new CEAG floodlight series FZD (you just change the complete lamp module), also effectively reduces the maintenance costs. Even in extreme environments and temperatures of -40° C you can be sure that the light fittings will be quickly back in use. The actual lamp replacement can then take place in the work-shop at a later date.



FZD flood light

EX - CEILING LIGHT FITTINGS

AB 05, AB 80 and AB12 NAV70
Metal Version for Zone 1 and 21

AB 05

This explosion-protected light fitting for Incandescent as well as for high pressure discharge lamps is designed in accordance to the ATEX-Directive 94/9/EG.

The light fittings are fitted with an impact resistant and thermally stable dome-shaped glass. All external screws are made of high quality stainless steel. The distinguishing characteristics of this series are the low weight and the simple installation.

The control gear for HPS-lamps is installed on a removable support in order to make the maintenance easy.

The AB 05 series offers a wide range of application using different type of explosion protection.

- Ex e IIC for Zone 1/21
- Ex de IIB (+H2 as an option) for Zone 1/21
- Ex nR for Zone 2/22 application

An internal aluminium reflector enables a well balanced light distribution characteristic.

AB 80

Due to the flameproof design all types of incandescent lamps up to 100 W or suitable compact fluorescent lamps with electronic ballast can be used.

The AB 80 light fitting is a flat light fitting for ceiling mounting.

Due to their robust architecture, this light fitting is suitable for use in the chemical industry and have been certified for usage in environments with a temperature of up to +55° C.

AB 12 NAV 70

This compact Ex-d light fixture for high pressure sodium lamps allows individual lighting solutions for areas with limited mounting space. Lamp, ballast capacitor and ignitor are incorporated on a compact module, which allows easy re-lamping and maintenance procedure. An optional external reflector allows individual illumination of working places.

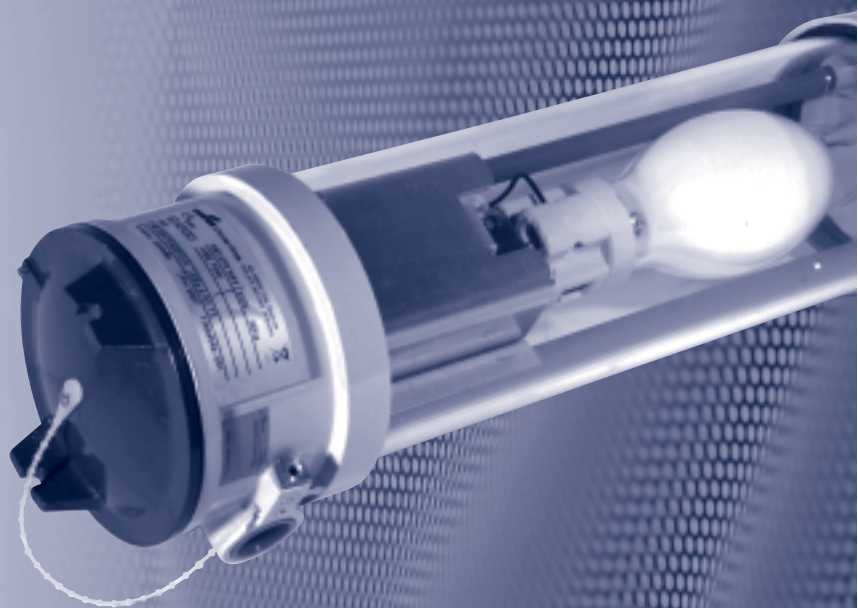
Certified for environmental temperatures from -50 °C up to +55° C

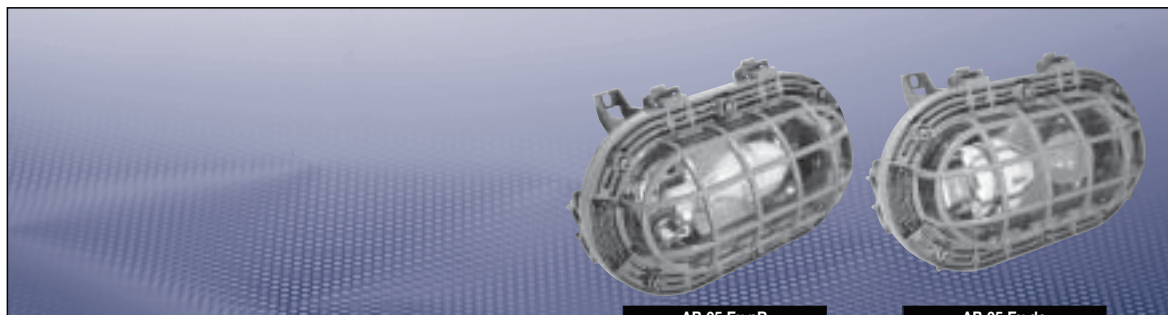
Fulfills highest requirements on corrosion protection and mechanical stability

Robust light alloy housing

Easy installation

High quality stainless steel screws, easier lamp replacement





Technical data

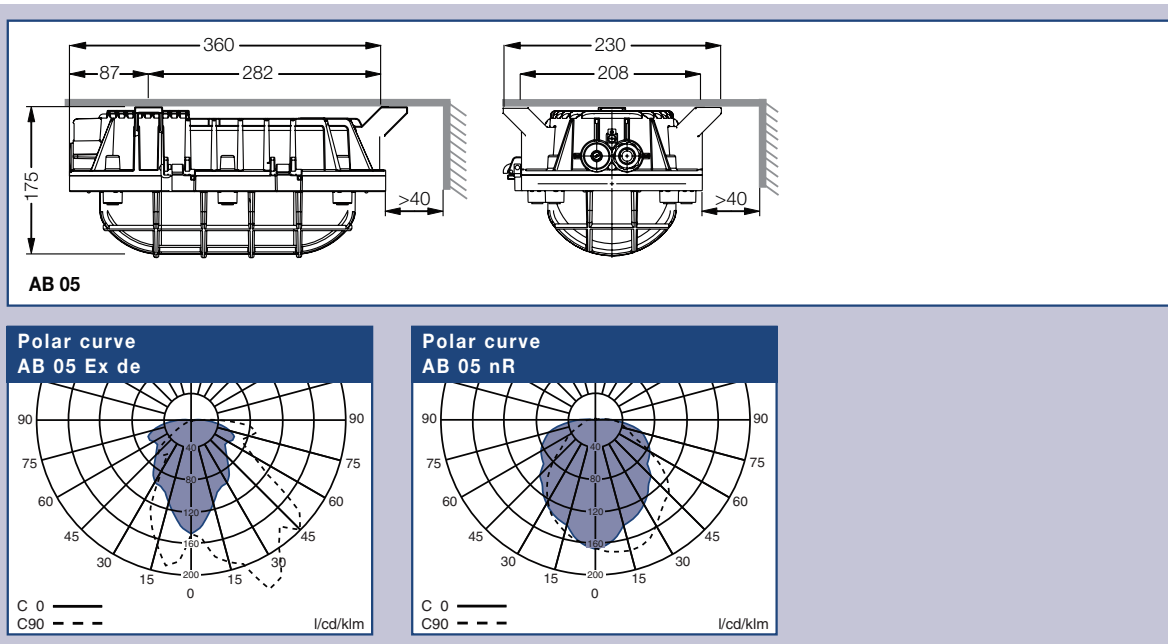
Ex-Bulkhead light fitting AB 05

Marking to 94/9/EC	AB 05 Ex-e	Ex II 2 G Ex ed IIC T3/T2	Ex II 2 D Ex tD IP66 T125 °C
	AB 05 Ex-d	Ex II 2 G Ex d IIB (+H2) T4/T3	Ex II 2 G Ex d IIB T4/T3 ¹⁾
	AB 05 nR	Ex II 3 G nR II T4/T3	Ex II 3 D Ex tD A22 IP66 T125 °C
EC-Type Examination Certificate	AB 05 Ex-e	BVS 07 ATEX E 152 X	
	AB 05 Ex-d	PTB 08 ATEX 1001 X	
Type Examination Certificate	AB 05 nR	BVS 07 ATEX E 151	
Permissible ambient temperature		-20 °C to +40 °C	
		-25 °C to +55 °C (option)	
Rated voltage		max. 250 V ²⁾ (AB 05 Ex e/nR)	
		230 V (AB 05 Ex d)	
Frequency		50 - 60 Hz	
Connecting terminals		L1, N, PE: 2 x 2.5 mm ²	
Insulation class		I	
Lamp/Illuminant		1)	
Degree of protection accd. EN 60529		IP66	
Cable glands/Gland plates/Enclosure drilling		1 x M20/M25 x 1.5 / 2 x M20/25 x 1.5 one plugged, or 1 x 3/4" ISO 7/1 / 2 x 3/4" ISO 7/1 one plugged	
Dimensions (L x W x H)		360 x 230 x 175 mm	
Weight		1)	
Type of mounting		ceiling/wall mounting	
Enclosure material		light alloy	
Enclosure colour		grey	
Protective cover/protective bowl		borosilicate glass	
Enclosure earth		2 x 6 mm ²	

¹⁾ see ordering details

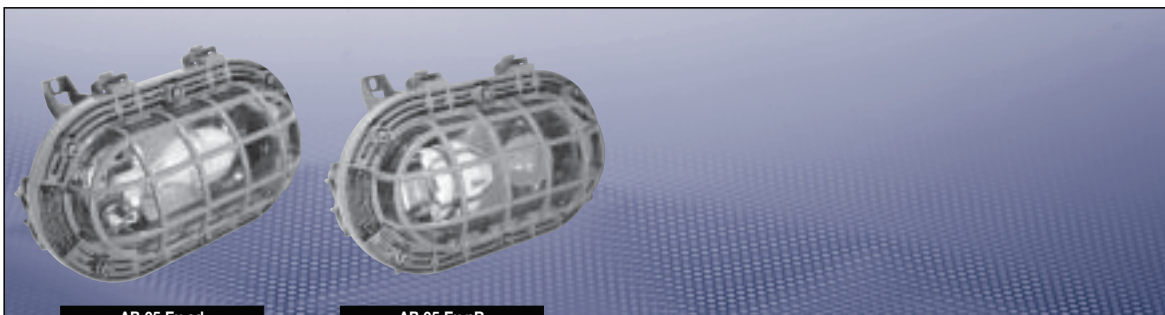
²⁾ other voltages on request

Dimension drawing | Polar curves



Dimensions in mm

Ex-ceiling light fittings



AB 05 Ex ed

AB 05 Ex nR

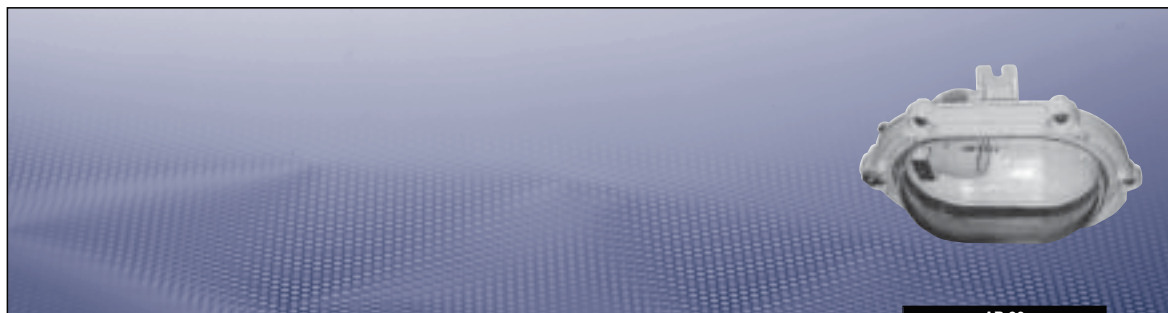
Ordering details

Type	Type of lamp	Rated luminous flux ²⁾	Temperature class	Cable glands/threads	Weight/kg	Qty.	Order No.
Group II 2 G IIC (-20 °C to +55 °C)							
AB 05 Ex ed	incandescent max. 60 W	710 lm	T3/T2 ¹⁾	1 x Ex e M20	5.9	1	AB 05 531 011001
AB 05 Ex ed	incandescent max. 60 W	710 lm	T3/T2 ¹⁾	2 x Ex e M20, one plugged with Ex e plug	5.9	1	AB 05 531 111001
AB 05 Ex ed	incandescent max. 60 W	710 lm	T3/T2 ¹⁾	1 x Ex e M25	5.9	1	AB 05 531 021001
AB 05 Ex ed	incandescent max. 60 W	710 lm	T3/T2 ¹⁾	2 x Ex e M25, one plugged with Ex e plug	5.9	1	AB 05 531 221001
Group II 3G Ex nR II (- 50°C to + 55°C)							
AB 05 nR	70 W HSE	5600 lm	T4	1 x Ex e M20	5.4	1	AB 05 611 011001
AB 05 nR	70 W HSE	5600 lm	T4	2 x Ex e M20, one plugged with Ex e plug	5.4	1	AB 05 611 111001
AB 05 nR	70 W HSE	5600 lm	T4	1 x Ex e M25	5.4	1	AB 05 611 021001
AB 05 nR	70 W HSE	5600 lm	T4	2 x Ex e M25, one plugged with Ex e plug	5.4	1	AB 05 611 221001
Group II 2 G IIB +H2 (- 20°C to + 55°C)							
AB 05 Ex d	70 W HSE	5600 lm	T4	1 x Ex d NPT 1/2" thread	6.9	1	AB 05 111 031001
AB 05 Ex d	70 W HSE	5600 lm	T4	2 x Ex d NPT 1/2" thread, one plugged with Ex d plug	6.9	1	AB 05 111 331001
AB 05 Ex d	70 W HSE	5600 lm	T4	1 x Ex d NPT 3/4" thread	6.9	1	AB 05 111 041001
AB 05 Ex d	70 W HSE	5600 lm	T4	2 x Ex d NPT 3/4" thread, one plugged with Ex d plug	6.9	1	AB 05 111 441001
Group II 2 G IIB (- 20°C to + 55°C)							
AB 05 Ex d	70 W HSE	5600 lm	T4	1 x Ex d NPT 1/2" thread	6.9	1	AB 05 211 031001
AB 05 Ex d	70 W HSE	5600 lm	T4	2 x Ex d NPT 1/2" thread, one plugged with Ex d plug	6.9	1	AB 05 211 331001
AB 05 Ex d	70 W HSE	5600 lm	T4	1 x Ex d NPT 3/4" thread	6.9	1	AB 05 211 041001
AB 05 Ex d	70 W HSE	5600 lm	T4	2 x Ex d NPT 3/4" thread, one plugged with Ex d plug	6.9	1	AB 05 211 441001

¹⁾ T3 only with lamp accd. to EN 60064 and DIN 49810 marked "T"

²⁾ depends on used lamps

Lamps and fixing accessories are not included.



AB 80

Technical data

Ex-Bulkhead light fitting AB 80

Marking to 94/9/EC	Ⓔ II 2 G EEx d IIB T4 (up to 100 W) / T6 (11 W)
EC-Type Examination Certificate	LOM 01 ATEX 2041 X
Permissible ambient temperature	-20 °C - +55 °C
Rated voltage	max. 250 V
Connecting terminals	1 x 2.5 mm ² or 2 x 1.5 mm ² ; PE 2 x 6 mm ²
Insulation class	I
Incandescent lamp	60 W, 100 W
Lamp/Illuminant	TC-DSE 11 W
Lamp cap	E 27
Rated luminous flux ¹⁾	710 lm / 1360 lm / 660 lm
Light efficiency in operation	60 %
Degree of protection accd. EN 60529	IP55
Cable glands/Gland plates/Enclosure drilling	2 x 3/4" ISO 7/1-thread (Ex-d), one plugged
Weight	6.60 kg
Type of mounting	wall/ceiling mounting
Enclosure material	cast iron
Enclosure colour	grey
Protective cover/protective bowl	mechanical and chemical high resistant glass
Enclosure earth	2 x 6 mm ²

¹⁾ depends on lamp

Ordering details

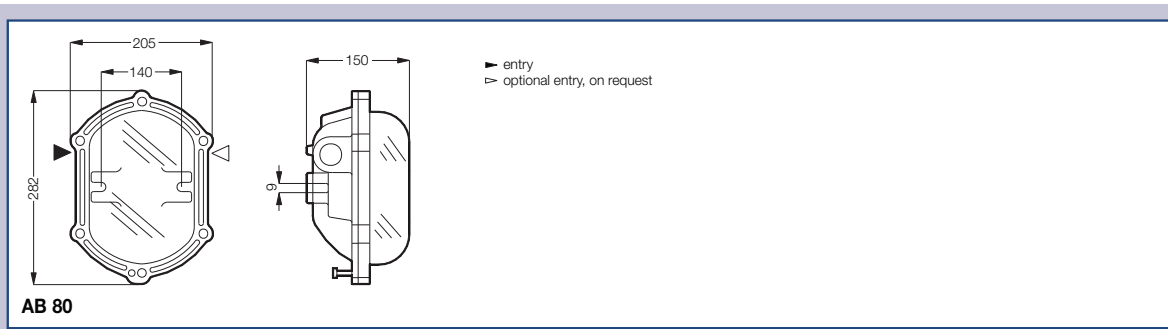
Type	Entry thread	Cable gland Ex-d for cable Ø	Blanking plug Ex-d	Order No.
AB 80 with cable gland	2 x 3/4"	9 - 14 mm	1 x 3/4"	NOR 000 005 120 125
AB 80	2 x 3/4"	-	1 x 3/4"	NOR 000 005 120 124

Lamps and fixing accessories are not included

Accessories

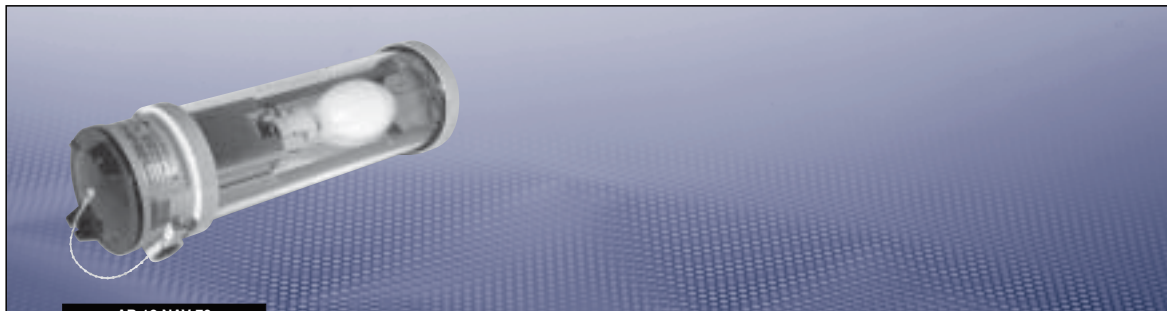
Type	Version	Order No.
GAB 80	wire guard for AB 80	NOR 000 005 120 439
Spare glass REP .AB 80	for AB 80	NOR 000 005 129 027

Dimension drawing



Dimensions in mm

Ex-Bulkhead light fitting



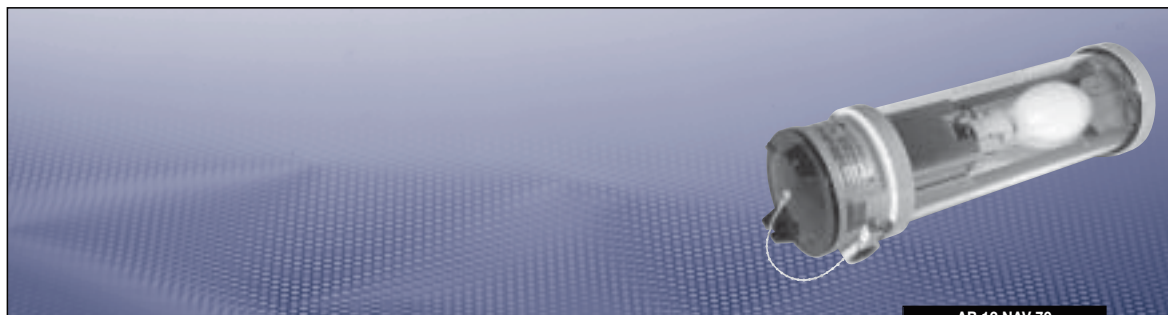
AB 12 NAV 70

Technical data

Ex-Bulkhead light fitting AB 12 NAV 70

EC-Type Examination Certificate	LOM 02 ATEX 2013 X
Marking to 94/9/EC	Ex II 2 G EEx d IIC/IIB T3
IECEX Certificate of Conformity	IECEX BKI 07.0008X
Mounting accd. to IECEX	Ex d IIC / IIB T3
Permissible ambient temperature	-20 °C to +55 °C – Gas group IIC -45 °C to +55 °C – Gas group IIB
Rated voltage	230 V ¹⁾
Rated current	0,36 A
Frequency	50 Hz
Power factor cos φ	≥ 0,9
Connecting terminals	L1, N, PE: 2 x 2.5 mm ² , PE 2 x 6 mm ²
Insulation class	I
Lamp/Illuminant	HSE 70 W
Lamp cap	E 27
Rated luminous flux ¹⁾	5600 lm
Light efficiency in operation	70 %
Degree of protection accd. EN 60529	IP67
Cable glands/Gland plates/Enclosure drilling	2 x 3/4" ISO 7/1 thread (Ex-d) one plugged
Weight	5.30 kg
Type of mounting	Wall/ceiling mounting
Enclosure material	light alloy
Enclosure colour	grey
Protective cover	Borosilicate glass tube

¹⁾ depends on lamp



AB 12 NAV 70

Ordering details

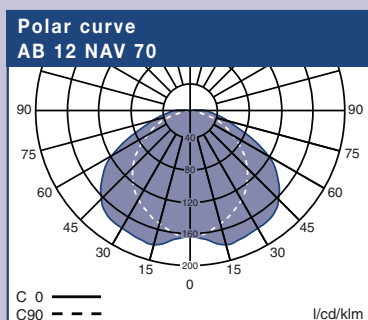
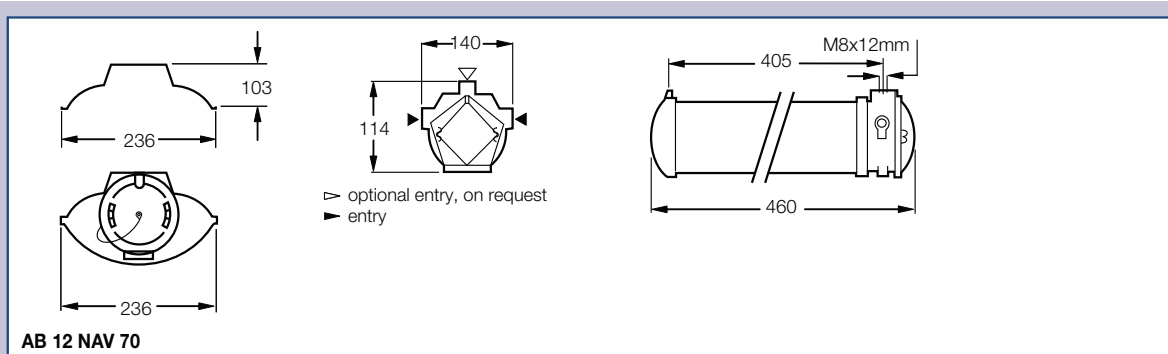
Type	Entry thread	Cable gland Ex-d for cable Ø	Blanking plug Ex-d	Qty.	Order No.
Group IIC - NORMAL (ambient) (-20 °C to +55 °C)					
AB 12 NAV 70 + PE ⁴⁾	2 x 3/4"	9 - 14	1 x 3/4"	1	NOR 000 005 060 071
AB 12 NAV 70	2 x 3/4"	–	1 x 3/4"	1	NOR 000 005 060 070
Group IIB - LOW (ambient) (up to -45 °C)					
AB 12 NAV 70	–	–	1 x 3/4"	1	NOR 000 005 060 072

Lamps and fixing accessories are not included

Accessories

AB 12 NAV 70	
Type	Order No.
Ceiling bracket D 92 with screws and polyamide washer (CrNi, 2 pcs.)	2 2480 092 000
Ceiling bracket A5 hot galvanized (1 pc.)	NOR 000 005 009 162
Wall bracket 45° hot galvanized (1 pc.)	NOR 000 005 009 196
Reflector RAB 108 (AISI 304)	NOR 003 045 060 471
Reflector RAB 108 (AISI 304) + guard (steel white epoxy coating)	NOR 003 045 060 819
Reflector RAB 108 (AISI 316)	NOR 003 165 060 471
Reflector RAB 108 (AISI 316) + guard (steel white epoxy coating)	NOR 003 165 060 819

Dimensions drawing | Polar curve



Dimensions in mm

EX - PEND ANT L I G H T F I T T I N G S

for incandescent and high pressure discharge lamps up to 500 W
Metal version for Zone 1/21

All explosion-protected pendant light fittings for Incandescent, high pressure discharge and Induction lamps are in accordance with the ATEX-Directive 94/9/EG.

AB 50/SPG 1N and AB51

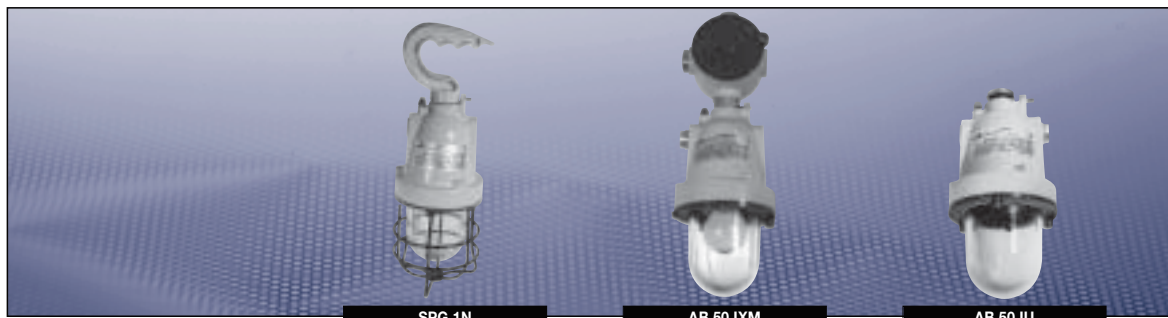
Due to their compact design the series AB 50, SPG 1N and AB 51 are designed for individual illumination of a local area. Beside the copper-free aluminium housings all external screws are made of stainless steel. The protective glass dome is made of borosilicate glass which has a high mechanical and thermic stability. This ensures a save use even in harsh environmental areas. Most of the world-wide field conditions can be accepted by the large permissible ambient temperature range from -50° to $+55^{\circ}$ °C.

EVI and EV...

The housing is made of a copper-free aluminium. The ballast for the high pressure discharge lamps (EVM/EVS/EVH) is thermically separated in its own compartment in the top part of the housing. The dome-shaped glass enclosure is made of borosilicate glass which has a high mechanical and thermic stability. All external screws and the reflector are made of stainless steel. The lamp replacement is done by opening the PTFE coated connection ring. Both the glass enclosure and the connection ring are hinged for easy access. Due to their robust architecture, these light fittings are suitable for use in the chemical industry and have been certified for usage in environments with a temperature of up to $+55^{\circ}$ °C (EVQ excluded). The new light fitting EVQ, designed for lamp replacement in > 60000 hour intervals are fitted with induction lamps and a high-frequency generator.

- For environmental temperatures range of -50° °C up to $+55^{\circ}$ °C (EVQ excluded)
- Safety Standard IP67
- Robust light alloy housing
- Easy opening of lamp compartment
- Easy installation





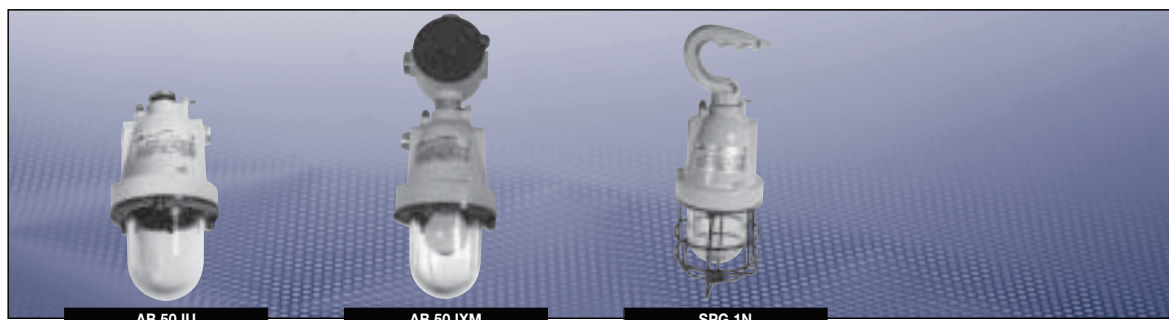
Technical data

AB 50 SPG 1N	
Marking to 94/9/EC	⚡ II 2 G EEx d IIC T3 (direct entry IU); T4 with 60 W at $t_{amp} +40\text{ °C}$ ⚡ II 2 G EEx de IIC T3 (indirect entry IXM) ⚡ II 2 D IP67 T180 °C, T130 with 60 W at $+40\text{ °C}$
EC-Type Examination Certificate	LOM 02 ATEX 2018 X
Permissible ambient temperature	-20 °C to +55 °C -50 °C to +55 °C (option: AB 50)
Rated voltage	max. 250 V
Power consumption	max. 100 VA
Connecting terminals	1 x 2.5 mm ² / 2 x 1.5 mm ² (IU and SPG1N), 2 x 2.5 mm ² , PE 2 x 6 mm ² (IXM)
Insulation class	I
Incandescent lamp	60 W, 100 W, 75 W halogene ²⁾
Lamp cap	E 27
Rated luminous flux ¹⁾	710 lm / 1360 lm
Light efficiency in operation	68 %
Degree of protection accd. EN 60529	IP67
Cable glands/Gland plates/Enclosure drilling	2 x 3/4" ISO 7/1-thread (Ex-d), one plugged (UI) / 2 x M25 x 1,5 (IXM), SPG1N incl. cable gland
Dimensions (L x W x H)	see dimension drawing
Weight	see table
Type of mounting	ceiling mounting
Enclosure material	light alloy
Enclosure colour	grey
Protective cover/protective bowl	borosilicate galss

¹⁾ depends on lamp

²⁾ 75 W halogene lamp max $t_{amp} = +40\text{ °C}$

Ex-Pendant light fittings



Ordering details

Type	Entry thread	Cable gland for cable Ø	Blanking plug	Weight	Order No.
(T ambient -20 °C to +55 °C)					
AB 50 IU (direct entry)	2 x 3/4"	9 - 14 mm Ex-d	1 x 3/4" Ex-d	1.6 kg	NOR 000 115 110 292
AB 50 IU (direct entry)	2 x 3/4"	–	–	1.5 kg	NOR 000 115 110 289
AB 50 IXM (indirect entry)	2 x M25 x 1.5	9 - 14 mm Ex-e	1 x M25 x 1.5 Ex-e	2.3 kg	NOR 000 115 110 321
AB 50 IXM (indirect entry)	2 x M25 x 1.5	–	–	2.2 kg	NOR 000 115 110 320
SPG 1N (portable light fixture)	1 x 3/4"	9 - 14 mm Ex-d	–	2.2 kg	NOR 000 005 110 745

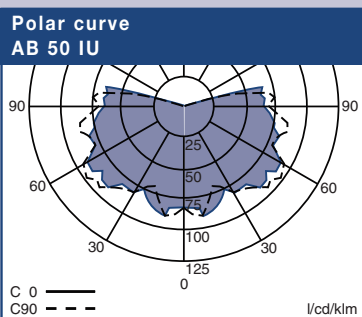
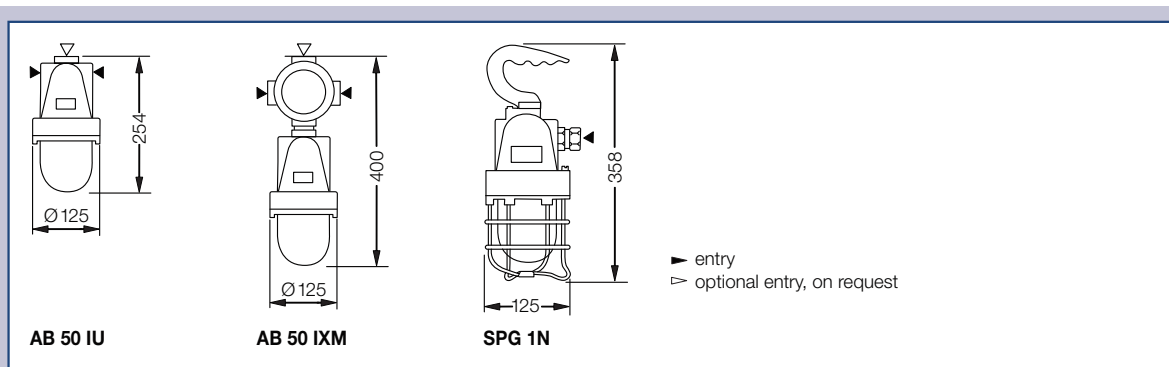
(T ambient -50 °C to +55 °C)					
AB 50 IU (direct entry)	2 x 3/4"	–	–	1.6 kg	NOR 000 115 110 389
AB 50 IXM (indirect entry)	2 x M25 x 1.5	–	–	2.2 kg	NOR 000 115 110 420

Lamps and fixing accessories are not included

Accessories

AB 50/SPG 1N		
Type	Version	Order No.
Spare glass REP AB 50	for AB 50	NOR 000 115 110 874
Wire guard	for AB 50	NOR 000 115 110 875
External reflector	for AB 50	NOR 000 115 110 718
Eye bolt	for AB 50	NOR 000 005 110 852
Ceiling bracket	for AB 50	NOR 000 005 110 828

Dimensions drawing | Polar curve



Dimensions in mm



Technical data

AB 51 UI AB 51 IX AB 51 M/S	
Marking to 94/9/EC	II 2 G EEx de IIC T ¹⁾ (indirect entry IX) / EEx d II C T ¹⁾ (direct entry) II 2 D IP67 T ¹⁾ °C
EC-Type Examination Certificate	LOM 02 ATEX 2020 X
IECEX Certificate of Conformity	IECEX BKI 07.0028X
Marking acc. to IECEx	Ex d/de IIC T ¹⁾ Ex tD A21 IP67 T ¹⁾
Permissible ambient temperature	-20 °C to +55 °C -45 °C to +55 °C (AB 51 M/S) -50 °C to +55 °C
Rated voltage	max. 250 V (AB 51..) / 230 V AC AB 51 M/S ³⁾
Power factor cos AB 51 M/S	≥ 0.85
Connecting terminals	1 x 2.5 mm ² / 2 x 1.5 mm ² (IU), 2 x 2.5 mm ² (IX and M/S), PE ext. 2 x 6 mm ²
Insulation class	I
Lamp/Illuminant	¹⁾
Lamp cap	E 27
Rated luminous flux ¹⁾	¹⁾
Light efficiency in operation	75 %
Degree of protection accd. EN 60529	IP67
Cable glands/Gland plates/Enclosure drilling	2 x 3/4" ISO 7/1-thread (Ex-d), one plugged (UI and M/S) / 2 x M25 x 1.5 one plugged (IX)
Dimensions (L x W x H)	260 mm x Ø 205 mm (IU), 400 x Ø 205 mm (IX), 425 x Ø 205 (M/S)
Weight	see ordering information
Type of mounting	ceiling mounting
Enclosure material	light alloy
Enclosure colour	grey
Protective cover/protective bowl	borosilicate galss

¹⁾ see table

²⁾ depends on lamp

³⁾ others on request

Additional lamp data

Lamp	Luminous flux ²⁾	Power	Temperature class II 2 G		Max. surface temp. II 2 D	
			T _{ambient} ≤ 40 °C	T _{ambient} < 40 °C > 55 °C	T _{ambient} ≤ 40 °C	T _{ambient} > 40 °C < 55 °C
Incandescent IGA 65	2200 lm	150 W	T3	T3	T 132 °C	T 147 °C
Incandescent IGA 80	3100 lm	200 W	T3	T3	T 137 °C	T 152 °C
Halogene lamp IQT	1100 lm	75 W	T5	T4	T 88 °C	T 103 °C
Halogene lamp IQT	2500 lm	150 W ⁴⁾	T4	T3	T 123 °C	T 138 °C
Compact Fluorescent Lamp TC-TSE	900/1200 lm	15 - 20 W ⁵⁾	T6	T6	T 60 °C	T 75 °C
High pressure mercury vapor mixed light HME-SB	1100 lm	100 W	T4	T4	T 110 °C	T 125 °C
High pressure mercury vapor mixed light HME-SB	3100 lm	160 W	T3	T3	T 127 °C	T 142 °C
High pressure mercury vapor HME	3800 lm	80 W	T4	T4	T 112 °C	T 127 °C
High pressure mercury vapor HME	6300 lm	125 W	T3	T3	T 127 °C	T 142 °C
High pressure sodium lamp HSE	3400 lm	50 W	T5	T4	T 86 °C	T 101 °C
High pressure sodium lamp HSE	5600 lm	70 W	T4	T4	T 97 °C	T 112 °C

⁴⁾ T_{amp} max. +40 °C

⁵⁾ T_{amp} max. +30 °C

Ex-Pendant light fittings



Ordering details

Type	Lamp	Entry thread	Cable entry for cable Ø	Blanking plug	Weight	Order No.
(T ambient -20 °C to +55 °C)						
AB 51 IU (direct entry)	all	2 x 3/4"	–	1 x 3/4" Ex-d	3.6 kg	NOR 000 115 110 396
AB 51 IX (indirect entry)	all	2 x M25 x 1.5	–	1 x M25 Ex-e	4.5 kg	NOR 000 115 110 437
AB 51 M 125 V (direct entry) ²⁾	125 W HME	2 x 3/4"	–	1 x 3/4" Ex-d	7.5 kg	NOR 000 115 110 890
AB 51 S 70 V (direct entry) ²⁾	70 W HSE	2 x 3/4"	–	1 x 3/4" Ex-d	7.5 kg	NOR 000 115 110 903

(T ambient -50 °C to +55 °C)						
AB 51 IU (direct entry)	all	2 x 3/4"	–	1 x 3/4" Ex-d	3.6 kg	NOR 000 115 110 397
AB 51 IX (indirect entry)	all	2 x M25 x 1.5	–	1 x M25 Ex-e	4.5 kg	NOR 000 115 110 438

(T ambient -45 °C to +55 °C)						
AB 51 M 125 V (direct entry) ²⁾	125 W HME	2 x 3/4"	–	1 x 3/4" Ex-d	7.5 kg	NOR 000 115 110 891
AB 51 S 70 V (direct entry) ²⁾	70 W HSE	2 x 3/4"	–	1 x 3/4" Ex-d	7.5 kg	NOR 000 115 110 870

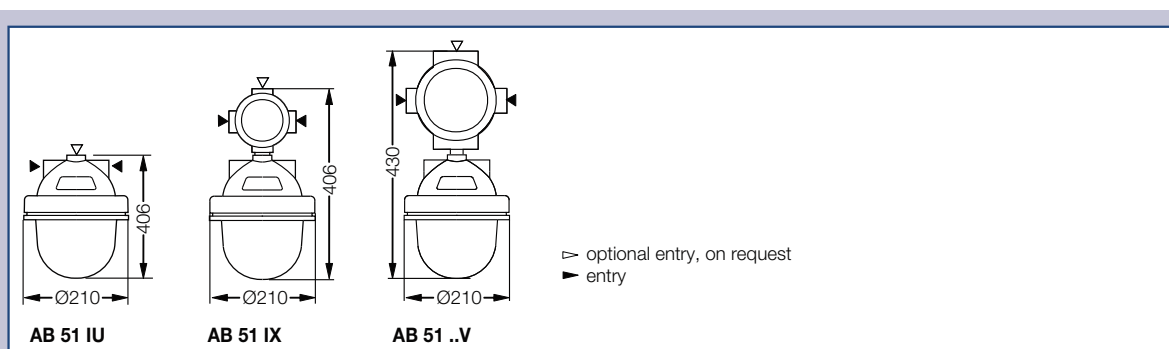
Lamps and fixing accessories are not included

²⁾ including flameproof enclosure with complete control gear

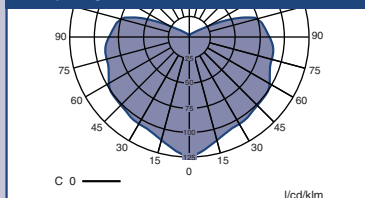
Accessories

AB 51		
Type	Version	Order No.
Spare glass with metal ring	for AB 51	NOR 000 115 110 873
Wire guard	for AB 51	NOR 000 005 110 860
External reflector	for AB 51	NOR 000 005 110 894
Ceiling bracket ANSI 316	for AB 51..	NOR 003 165 110 000
Eye bolt ANSI 316	for AB 51..	NOR 003 165 110 001

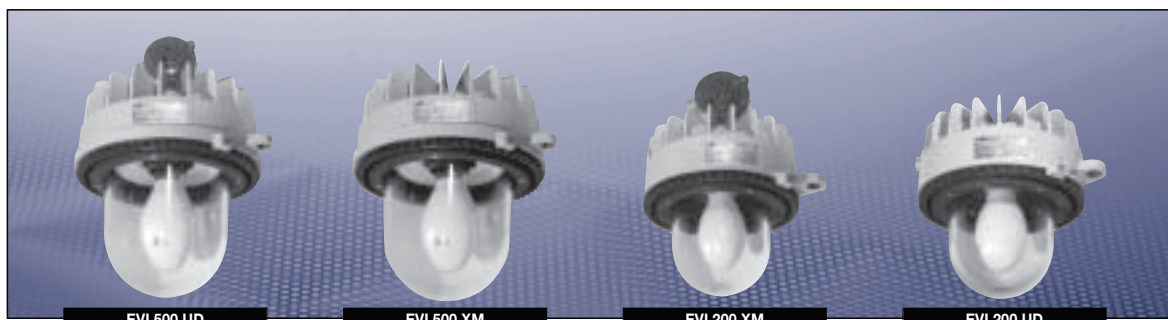
Dimensions drawing | Polar curve



Polar curve AB 51 IU



Dimensions in mm



Technical data

EVI 200 EVI 500	
Marking to 94/9/EC	⚡ II 2 G EEx d IIC T ¹⁾ (direct entry UD) ⚡ II 2 G EEx de IIC T ¹⁾ (indirect entry XM) ⚡ II 2 D Ex tD A21 IP67 T ¹⁾ °C
EC-Type Examination Certificate	LOM 02 ATEX 2012 X
IECEX Certificate of Conformity	IECEX BKI 07.0031X
Marking acc. to IECEx	Ex d / de IIC T ¹⁾ Ex tD A21 IP67 T ¹⁾
Permissible ambient temperature	-20 °C to +55 °C -50 °C to +55 °C
Rated voltage	max. 250 V
Connecting terminals	1 x 2.5 mm ² / 2 x 1.5 mm ² (UD), 2 x 2.5 mm ² (XM); PE ext. 2 x 6 mm ²
Insulation class	I
Lamp/Illuminant	¹⁾
Lamp cap	E 27 (EVI 200) / E 40 (EVI 500)
Rated luminous flux ¹⁾	¹⁾
Light efficiency in operation	75 %
Degree of protection accd. EN 60529	IP67
Cable glands/Gland plates/Enclosure drilling	2 x 3/4" ISO 7/1-thread (Ex-d), one plugged (UD) / 2 x M25 x 1.5, on plugged (XM)
Dimensions (L x W x H)	280 mm x Ø 245 mm (200 UD), 400 x Ø 225 mm (200 XM) 340 mm x Ø 300 mm (500 UD), 460 x Ø 300 mm (500 XM)
Weight	see ordering information
Type of mounting	ceiling mounting
Enclosure material	light alloy
Enclosure colour	grey
Protective cover/protective bowl	borosilicate glass

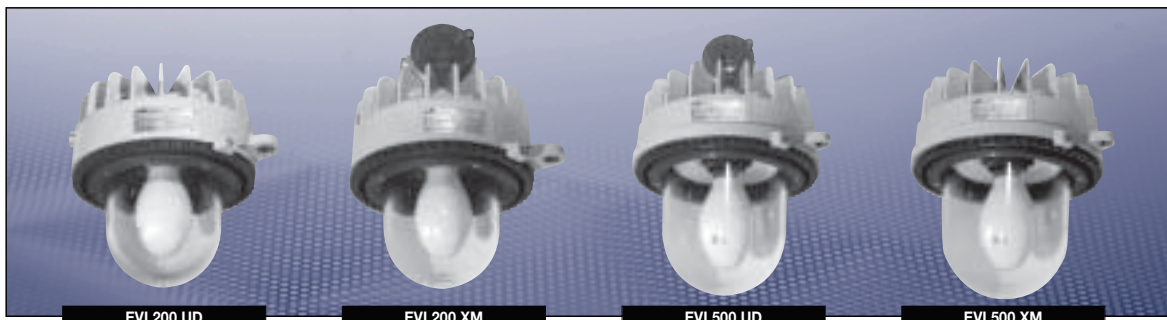
¹⁾ see table

²⁾ depends on lamp

Additional lamp data

Lamp	Luminous flux ²⁾	Power	Type	Temperature class II 2 G		Max. surface temp. II 2 D	
				T _{ambient} ≤ 40 °C	T _{ambient} > 40 °C > 55 °C	T _{ambient} ≤ 40 °C	T _{ambient} > 40 °C > 55 °C
Incandescent IGA 65	2200 lm	150 W	EVI 200	T4	T4	T105 °C	T120 °C
Incandescent IGA 80	3100 lm	200 W	EVI 200	T4	T4	T115 °C	T130 °C
Incandescent IGA 90	5000 lm	300 W	EVI 500	T4	T4	T115 °C	T130 °C
Incandescent IGA 110	8400 lm	500 W	EVI 500	T3	T3	T155 °C	T170 °C
High pressure mercury vapor mixed light HME-SB	3100 lm	160 W	EVI 200	T4	T3	T125 °C	T140 °C
High pressure mercury vapor mixed light HME-SB	5600 lm	250 W	EVI 500	T4	T3	T125 °C	T140 °C
High pressure mercury vapor HME	3800 lm	80 W	EVI 200	T4	T4	T115 °C	T130 °C
High pressure mercury vapor HME	6300 lm	125 W	EVI 200	T4	T4	T115 °C	T130 °C
High pressure mercury vapor HME	13000 lm	250 W	EVI 500	T4	T3	T125 °C	T140 °C
High pressure sodium lamp HSE	5600 lm	70 W	EVI 200	T5	T4	T 95 °C	T110 °C
High pressure sodium lamp HSE	14000 lm	150 W	EVI 500	T5	T4	T 90 °C	T105 °C
High pressure sodium lamp HSE	25000 lm	250 W	EVI 500	T4	T4	T125 °C	T140 °C
High pressure Metal Halide HIE	17000 lm	250 W	EVI 500	T4	T3	T125 °C	T140 °C

Ex-Pendant light fitting



Ordering details

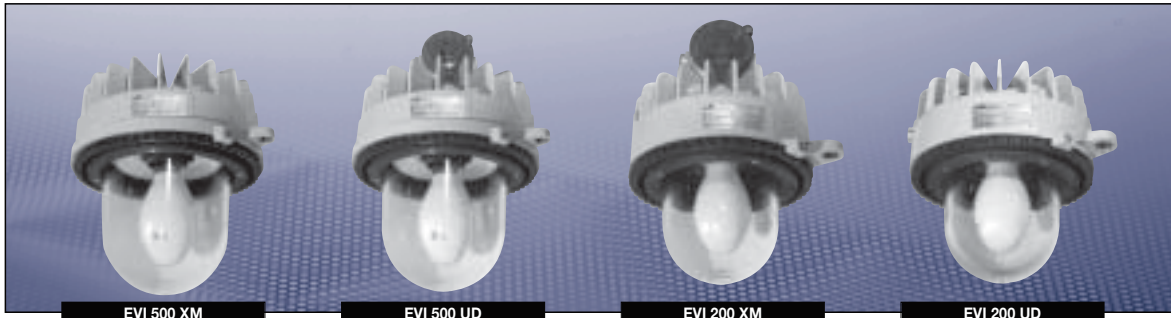
Type ¹⁾	Entry thread	Cable gland for cable Ø	Blanking plug	Weight kg	Order No.
(T ambient -20 °C to +55 °C)					
EVI 200 UD (direct entry)	2 x 3/4"	9 -14 mm Ex-d	1 x 3/4" Ex-d	8.30	NOR 000 005 110 754
EVI 200 UD (direct entry)	2 x 3/4"	–	1 x 3/4" Ex-d	8.20	NOR 000 005 110 753
EVI 500 UD (direct entry)	2 x 3/4"	9 -14 mm Ex-d	1 x 3/4" Ex-d	12.90	NOR 000 005 110 762
EVI 500 UD (direct entry)	2 x 3/4"	–	1 x 3/4" Ex-d	12.80	NOR 000 005 110 761
EVI 200 XM (indirect entry)	2 x M25 x 1.5	9 -14 mm Ex-e	1 x M25 Ex-e	9.10	NOR 000 005 110 941
EVI 200 XM (indirect entry)	2 x M25 x 1.5	–	1 x M25 Ex-e	9.00	NOR 000 115 110 941
EVI 500 XM (indirect entry)	2 x M25 x 1.5	9 -14 mm Ex-e	1 x M25 Ex-e	13.70	NOR 000 005 110 942
EVI 500 XM (indirect entry)	2 x M25 x 1.5	–	1 x M25 Ex-e	13.60	NOR 000 115 110 942
(T ambient -50 °C to +55 °C)					
EVI 200 UD (direct entry)	2 x 3/4"	–	1 x 3/4" Ex-d	8.20	NOR 000 115 110 753
EVI 500 UD (direct entry)	2 x 3/4"	–	1 x 3/4" Ex-d	12.80	NOR 000 005 110 763
EVI 200 XM (direct entry)	2 x 3/4"	–	1 x 3/4" Ex-d	9.00	NOR 000 115 110 943
EVI 500 XM (direct entry)	2 x 3/4"	–	1 x 3/4" Ex-d	13.60	NOR 000 115 110 944

¹⁾ Versions for high pressure lamps (HME, HSE, HIE): flameproof ballast enclosure not included

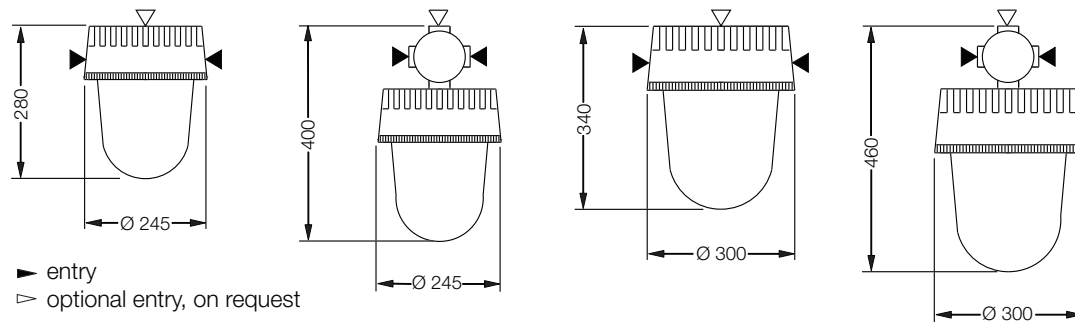
Lamps and fixing accessories are not included

Accessories

EVI 200, EVI 500			
Type	Type	Application	Order No.
Spare Glass	REP200	EVI 200	NOR 000 005 110 969
Spare glass	REP 500	EVI 500	NOR 000 005 110 977
Wire Guard	G. EV 200	EVI 200	NOR 000 005 110 860
Wire Guard	G. EV 500	EVI 500	NOR 000 005 110 878
External reflector	PC. EV 200	EVI 200 / EVQ 55	NOR 000 005 110 894
External reflector	PC. EV 500	EVI 500 / EVQ 85	NOR 000 005 110 901
Lamp key	KEY, EV	EV ...	NOR 000 005 110 886
Eye bolt	CEV/AB	EV ...	NOR 000 005 110 852
Ceiling bracket,adjustable	AS. EV	EV ...	NOR 000 005 110 828
Wall mounting barcket	SPU. EV	EV ...	NOR 000 005 110 951
Pole mounting bracket	BC. EV	EV ...	NOR 000 005 110 836
Wall mounting bracket	SP. EV 200	EVI 200	NOR 000 005 110 935
Wall mounting bracket	SP. EV 500	EVI 500	NOR 000 005 110 943



Dimensions drawing | Polar curve

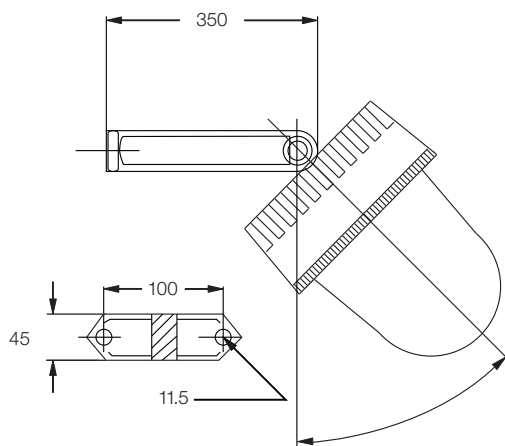


EVI 200 UD

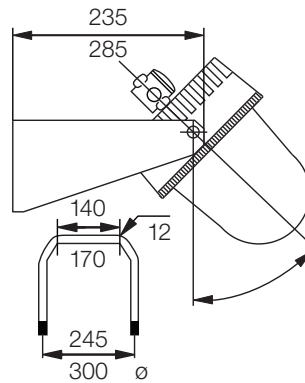
EVI 200 XM

EVI 500 UD

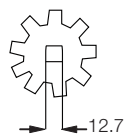
EVI 500 XM



BC.EV/AB



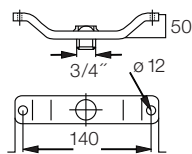
SP.EV 200/500



KEY.EV

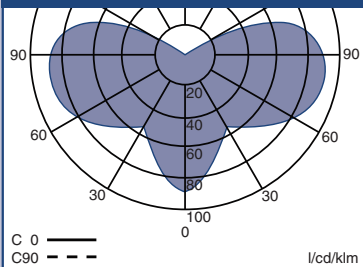


CEV/AB

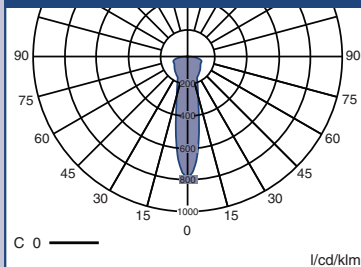


AS.EV/AB

Polar curve EVI 200/500 without external reflector

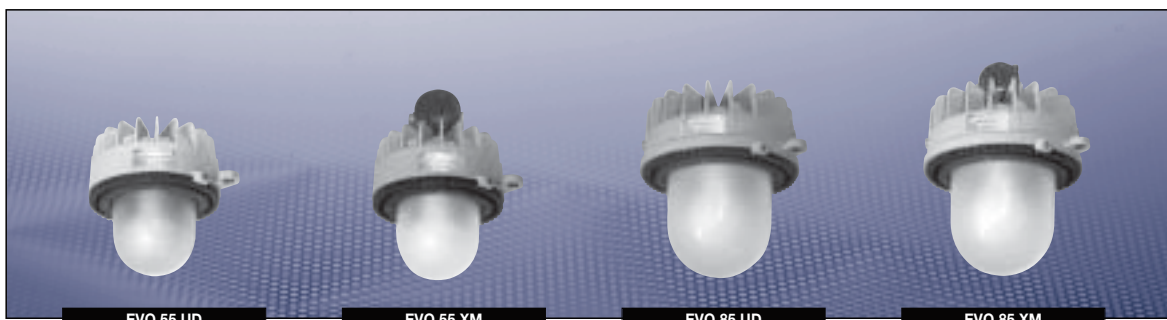


Polar curve EVI 200/500 with external reflector



Dimensions in mm

Ex-Pendant light fitting



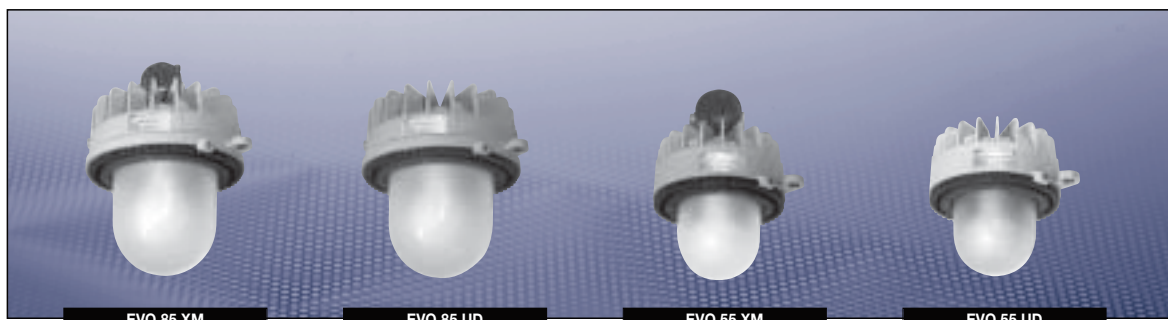
Technical data

EVQ for QL lamps

Marking to 94/9/EC	Ⓔ II 2 G EEx d IIC T6 (direct entry UD) Ⓔ II 2 G EEx de IIC T6 (indirect entry XM) Ⓔ II 2 D IP67 T85 °C
EC-Type Examination Certificate	LOM 02 ATEX 2012 X
IECEx Certificate of Conformity	IECEx BKI 07.0031X
Marking acc. to IECEx	Ex d / de IIC T6
Permissible ambient temperature	-20 °C to +55 °C
Rated voltage	230 V AC/DC
Rated current	0.26 A (55 W), 0.40 A (85 W)
Frequency	50/60 Hz
Power factor cos φ	> 0.96
Circuit	electronic HF generator
Connecting terminals	1 x 2.5 mm ² / 2 x 1.5 mm ² (UD), 2 x 2.5 mm ² (XM); PE ext. 2 x 6 mm ²
Insulation class	I
Lamp/Illuminant	Induction lamp 55/85 W with coupler
Rated luminous flux ²⁾	55 W: 3500 lm / 85 W: 6000 lm
Light efficiency in operation	66 %
Degree of protection accd. EN 60529	IP67
Cable glands/Gland plates/Enclosure drilling	2 x 3/4" ISO 7/1-thread (Ex-d), one plugged (UD), 2 x M25 thread (Ex-e), one plugged (XM)
Dimensions (L x W x H)	280 mm x Ø 245 mm (55 UD), 400 x Ø 225 mm (55 XM), 340 mm x Ø 300 mm (85 UD), 460 x Ø 300 mm (85 XM),
Weight	see ordering information
Type of mounting	ceiling mounting
Enclosure material	light alloy
Enclosure colour	grey, PTFE
Protective cover/protective bowl	borosilicate glass, opaque (clean on request)

Fixing accessories are not included

²⁾ depends on uses lamps



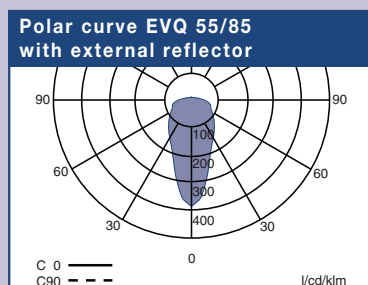
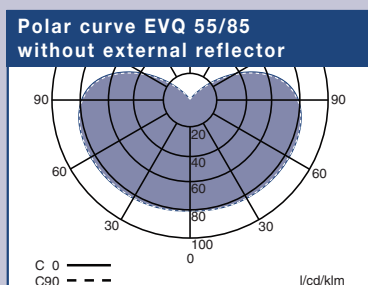
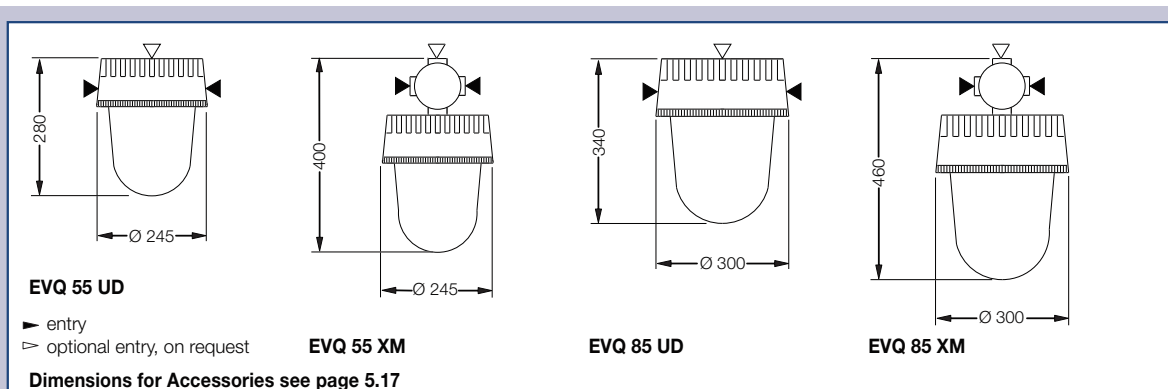
Ordering details

Type	Entry thread	Cable gland for cable Ø	Blanking plug	Weight kg	Order No.
EVQ 55 UD (direct entry)	2 x 3/4"	9 -14 mm Ex-d	1 x 3/4" Ex-d	9.10	NOR 000 115 110 851
EVQ 55 UD (direct entry)	2 x 3/4"	—	1 x 3/4" Ex-d	9.00	NOR 000 115 110 850
EVQ 85 UD (direct entry)	2 x 3/4"	9 -14 mm Ex-d	1 x 3/4" Ex-d	12.9	NOR 000 115 110 853
EVQ 85 UD (direct entry)	2 x 3/4"	—	1 x 3/4" Ex-d	12.8	NOR 000 115 110 852
EVQ 55 XM (indirect entry)	2 x M25 x 1.5	9 -14 mm Ex-e	1 x M25 Ex-e	9.90	NOR 000 115 110 855
EVQ 55 XM (indirect entry)	2 x M25 x 1.5	—	1 x M25 Ex-e	9.80	NOR 000 115 110 854
EVQ 85 XM (indirect entry)	2 x M25 x 1.5	9 -14 mm Ex-e	1 x M25 Ex-e	13.70	NOR 000 115 110 857
EVQ 85 XM (indirect entry)	2 x M25 x 1.5	—	1 x M25 Ex-e	13.60	NOR 000 115 110 856

Accessories

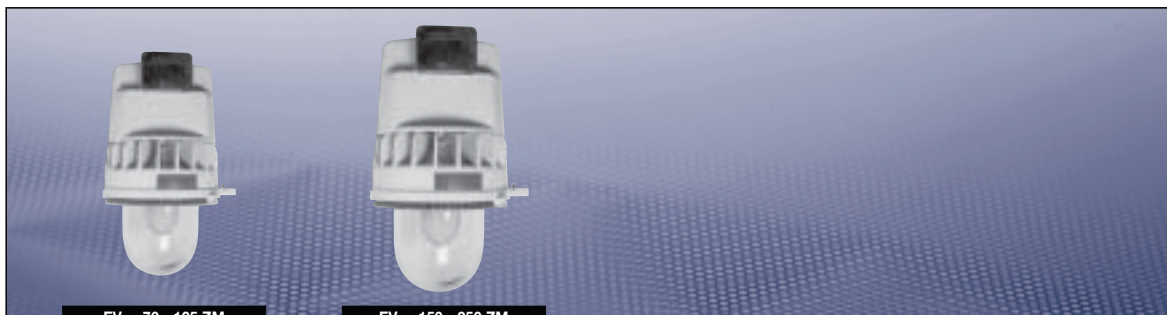
EVQ 55, EVQ 85			
Type	Type	Application	Order No.
Wire Guard	G. EV 200	EVQ 55	NOR 000 005 110 860
Wire Guard	G. EV 500	EVQ 85	NOR 000 005 110 878
External reflector	PC. EV 200	EVI 200 / EVQ 55	NOR 000 005 110 894
External reflector	PC. EV 500	EVI 500 / EVQ 85	NOR 000 005 110 901
Lamp key	KEY, EV	EV ...	NOR 000 005 110 886
Eye bolt	CEV/AB	EV ...	NOR 000 005 110 852
Ceiling bracket, adjustable	AS. EV	EV ...	NOR 000 005 110 828
Wall mounting bracket	SPU. EV	EV ...	NOR 000 005 110 951
Pole mounting bracket	BC. EV	EV ...	NOR 000 005 110 836
Wall mounting bracket	SP. EV 200	EVQ 55	NOR 000 005 110 935
Wall mounting bracket	SP. EV 500	EVQ 85	NOR 000 005 110 943

Dimensions drawing | Polar curve



Dimensions in mm

Ex-Pendant light fitting



Technical data

EVM EVS EVH	
Marking to 94/9/EC	II 2 G EEx de IIC T¹⁾ II 2 D IP67 T¹⁾ °C
EC-Type Examination Certificate	LOM 02 ATEX 2012 X
IECEX Certificate of Conformity	IECEX BK1 07.0031X
Marking acc. to IECEx	Ex de IIC T ¹⁾ Ex tD A21 IP67 T ¹⁾
Permissible ambient temperature	-20 °C to +55 °C -45 °C to +55 °C (option)
Rated voltage	230 V AC ²⁾
Rated current	¹⁾
Frequency	50 Hz ²⁾
Power factor cos φ	> 0.85
Circuit	electromagnetic circuit
Connecting terminals	3 x (2 x 2.5 mm ²); PE extern. 2 x 6 mm ²
Insulation class	I
Lamp cap	E 27 (EV. 70 ... 125), E 40 (EV 150 ... 250)
Light efficiency in operation	76 %
Degree of protection accd. EN 60529	IP67
Cable glands/Gland plates/Enclosure drilling	2 x M25 threads (Ex-e), one plugged
Dimensions (L x W x H)	480 mm x Ø 245 mm (EV.. 70-125 ZM) 560 mm x Ø 300 mm (EV.. 150-250 ZM)
Weight	see ordering information
Type of mounting	ceiling mounting
Enclosure material	light alloy
Enclosure colour	grey
Protective cover/protective bowl	borosilicate glass

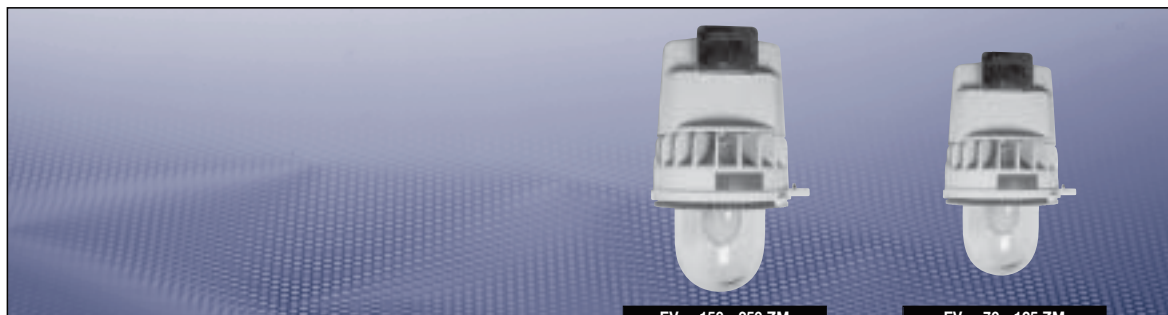
¹⁾ see ordering details

²⁾ other voltages or frequencies on request

³⁾ depends on used lamps

Additional lamp data

Lamp	Luminous flux ³⁾	Power	Type	Temperature class II 2 G		Max. surface temp. II 2 D	
				T _{ambient ≤ 40 °C}	T _{ambient > 40 °C < 55 °C}	T _{ambient ≤ 40 °C}	T _{ambient > 40 °C < 55 °C}
High pressure mercury vapor HME	6300 lm	125 W	EVM 125 ZM	T4	T4	T115°C	T130°C
High pressure mercury vapor HME	13000 lm	250 W	EVM 250 ZM	T4	T3	T125°C	T140°C
High pressure sodium lamp HSE	5600 lm	70 W	EVS 70 ZM	T5	T4	T95°C	T110°C
High pressure sodium lamp HSE	14000 lm	150 W	EVS 150 ZM	T5	T4	T90°C	T105°C
High pressure sodium lamp HSE	25000 lm	250 W	EVS 250 ZM	T4	T4	T115°C	T130°C
High pressure Metal Halide HIE	17000 lm	250 W	EVH 250 ZM	T4	T3	T125°C	T140°C

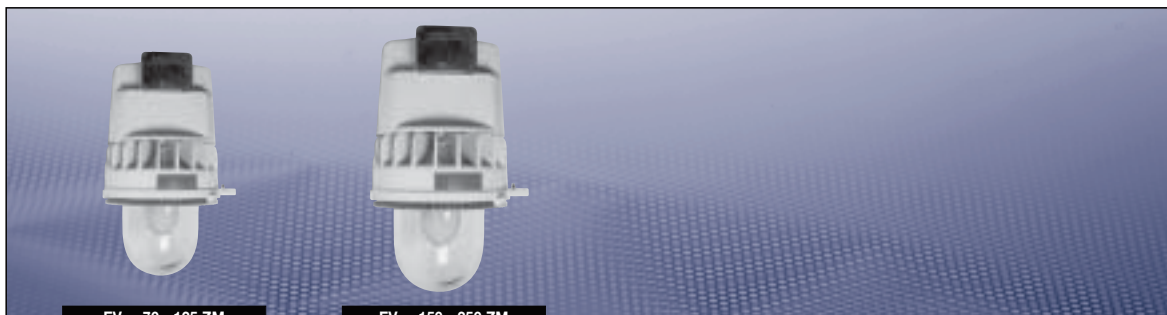


Ordering details

Type	Lamp	Rated current	Cable entry Ex-e for cable Ø	Weight kg	Order No.
(T ambient -20 °C to +55 °C)					
EVM 125 ZM	HME 125W	1.10 A	9 -14 mm	14.1	NOR 000 115 110 079
EVM 125 ZM	HME 125W	1.10 A	–	14.0	NOR 000 115 110 879
EVM 250 ZM	HME 250W	0.35 A	9 -14 mm	14.0	NOR 000 115 110 080
EVM 250 ZM	HME 250W	2.10 A	–	22.4	NOR 000 115 110 881
EVS 70 ZM	HSE 70W	0.35 A	9 -14 mm	14.1	NOR 000 115 110 086
EVS 70 ZM	HSE 70W	0.35 A	–	14.0	NOR 000 115 110 880
EVS 150 ZM	HSE 150W	0.96 A	9 -14 mm	22.4	NOR 000 115 110 087
EVS 150 ZM	HSE 150W	0.96 A	–	22.4	NOR 000 115 110 883
EVS 250 ZM	HSE 250W	1.70 A	9 -14 mm	22.4	NOR 000 115 110 088
EVS 250 ZM	HSE 250W	1.70 A	–	22.4	NOR 000 115 110 882
EVH 250 ZM	HIT 250W	1.80 A	9 -14 mm	22.4	NOR 000 115 110 046
EVH 250 ZM	HIT 250W	1.80 A	–	22.4	NOR 000 115 110 945
(T ambient -45 °C to +55 °C)					
EVM 125 ZM	HME 125 W	0.96 A	–	14.0	NOR 000 115 110 884
EVM 250 ZM	HME 250 W	0.96 A	–	22.4	NOR 000 115 110 885
EVS 70 ZM	HSE 70 W	1.70 A	–	14.0	NOR 000 115 110 886
EVS 150 ZM	HSE 150 W	1.70 A	–	22.4	NOR 000 115 110 887
EVS 250 ZM	HSE 250 W	1.80 A	–	22.4	NOR 000 115 110 888
EVH 250 ZM	HIT 250 W	1.80 A	–	22.4	NOR 000 115 110 889

Lamps and fixing accessories are not included

Ex-Pendant light fitting

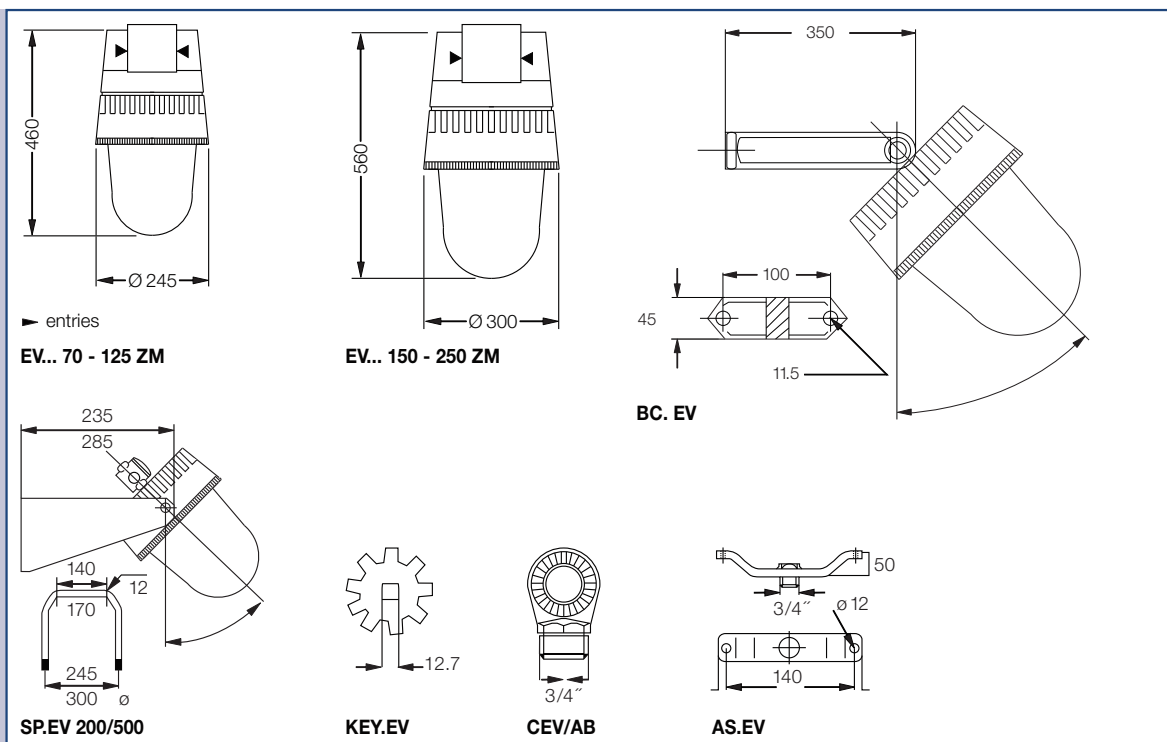


Accessories

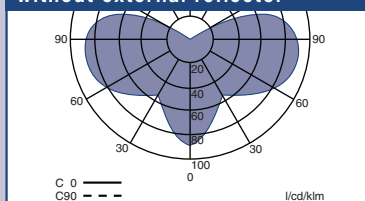
EVM, EVS, EVH

Type	Type	Application	Order No.
Space glass	REP 200	EV.. 70-125 ..	NOR 000 005 110 969
Spare glass	REP 500	EV.. 150-250 ..	NOR 000 005 110 977
Wire guard	G. EV 200	EV.. 70-125 ..	NOR 000 005 110 860
Wire guard	G. EV 500	EV.. 150-250 ..	NOR 000 005 110 878
External reflector	PC. EV 200	EV.. 70-125 ..	NOR 000 005 110 894
External reflector	PC. EV 500	EV.. 150-250 ..	NOR 000 005 110 901
Lamp key	KEY, EV		NOR 000 005 110 886
Eye bolt	CEV/AB		NOR 000 005 110 852
Ceiling bracket, adjustable	AS. EV		NOR 000 005 110 828
Wall mounting bracket	SPU. EV		NOR 000 005 110 951
Pole mounting bracket	BC. EV		NOR 000 005 110 836
Wall mounting bracket	SP. EV 200	EV 70..-125 ..	NOR 000 005 110 935
Wall mounting bracket	SP. EV 500	EV 150..-250 ..	NOR 000 005 110 943

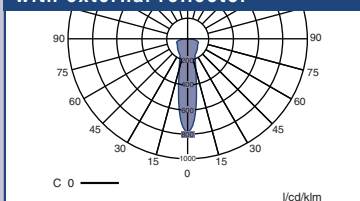
Dimensions drawing



Polar curve EV 200/500 without external reflector



Polar curve EV 200/500 with external reflector



Dimensions in mm

E X - F L O O D L I G H T S

FZD 04 and FZD EN for High Pressure Discharge Lamps Metal Design for Zone 1/2/1

The explosion-protected floodlight FZD 04 for high-pressure discharge lamps meets the requirements of the ATEX directive 94/9/EC. The modular floodlight FZD 04 comprises an Ex-e housing for the starter and a separate mounted Ex-e enclosure with ballast and the p.f. correction capacitor. The floodlight enclosure made of high grade aluminium and stainless steel components is a light weight, which can be installed easily by a single electrician without need of a crane or other heavers.

All main components are certified separately as components. The flameproof lamp module can easily be separated from the housing once a screw has been loosened. Two sealing systems of degree of protection IP66 ensure permanently protected Ex-d contacts.

There is no need to switch off the mains voltage to separate the module from the luminaire.

This means that a simple lamp change and easy cleaning of the lamp modules possible, even outside the potentially explosive atmospheres. Optionally, the module can be used with narrow-angle and wide-angle reflectors – even retrospectively and without any complicated installation.

By simply and quickly exchanging the lamp-module, changing the lamp is not a problem, even in extreme weather or climate conditions.

The **FZD EN** combines the easy lamp replacement with a compact enclosure. All components are protected in one Ex-d enclosure. All advantages of easy re-lamping and easy maintenance are same with FZD 04.

Simple lamp change by exchanging the Ex-d lamp module

Light weight floodlight enclosure – easy to install

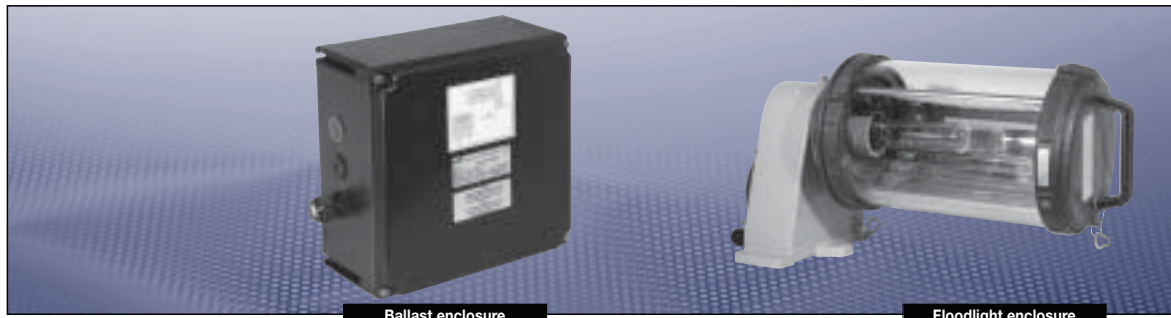
Modular Ex-e/Ex-d housing

High degree of protection IP66

Internal wide-angle reflector or, optionally, narrow-angle reflector

Can also be used in low ambient temperatures of up to -45 °C





Ballast enclosure

Floodlight enclosure

Technical data

FZD 04

Marking to 94/9/EC	Ex II 2 G EEx demq IIC T ¹⁾ Ex II 2 D IP66 T ¹⁾ °C
EC-Type Examination Certificate	PTB 02 ATEX 1156
IECEX Certificate of Conformity	IECEX BKI 07.0002
Marking accd. to IECEx	Ex de IIC T3 or T4 Ex tD A21 IP66 T ¹⁾ °C

Permissible ambient temperature	-45 °C to +60 °C ¹⁾
Rated voltage	230 V AC ²⁾
Rated current	¹⁾
Frequency	50 Hz
Power factor cos φ	> 0.9
Circuit	compensated circuit
Insulation class	I
Lamp/Illuminant	¹⁾
Degree of protection accd. EN 60529	IP66

Lamp module | Floodlight enclosure

Type of protection	Lamp module: Ex d IIC Floodlight enclosure: Ex em IIC
Connecting terminals	2 x (2 x 2.5 mm ²) + 2.5 mm ² PE
Lamp/Illuminant	High pressure sodium lamp – tubular (HST) Metal halide lamp – tubular (HIT)
Lamp cap	E 40 acc. EN 60061-1
Light efficiency in operation	66 %
Cable glands/Gland plates/Enclosure drilling	1 x M25 x 1.5 with plastic cable glands Ex-e M25 for non-armoured cable Ø 8 - 17 mm ³⁾
Weight	Lamp module lamp: approx. 10.6 kg Floodlight enclosure: approx. 4.3 kg
Enclosure earth	2.5 mm ² PE

Ballast enclosure

Type of protection	Ex emq IIC
Connecting terminals	3 x (2 x 4 mm ²) + 4 mm ² PE
Cable glands/Gland plates/Enclosure drilling	3 x M25 x 1.5 two M25 for cable Ø 8 - 17 mm with plastic cable grand Ex-e M25 for one plugged ⁴⁾
Weight	approx. 9 kg (polyester fiberglass) approx. 10 kg (stainless steel)
Enclosure material	Polyester reinforced fiber glass, or stainless steel ¹⁾

¹⁾ see table

³⁾ Connection to the ballast enclosure

⁵⁾ mounting position ± 135 °C, see instruction

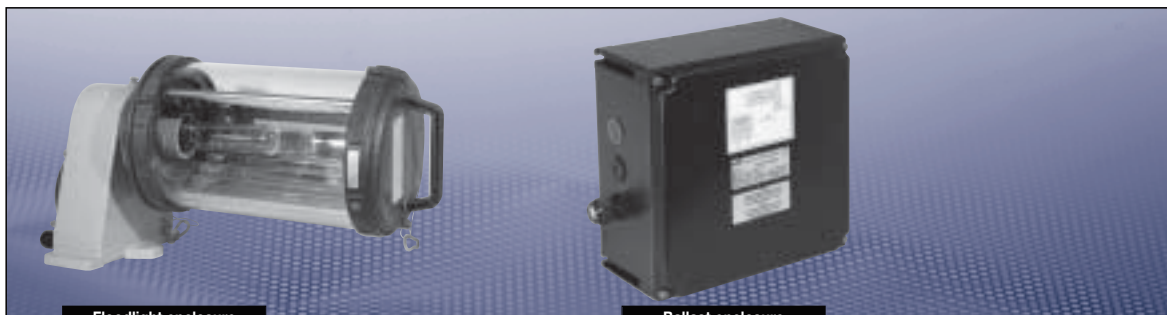
²⁾ other voltages or frequencies on request

⁴⁾ One to connect to the floodlight enclosure, the others for the mains connection, option with metal thread, without cable gland

Additional lamp data

Lamp	Rated current	Temperature class II 2 G			Max. surface temp. II 2 D		
		T _{amb.} -45 °C to +40 °C	T _{amb.} -45 °C to +50 °C	T _{amb.} -45 °C to +60 °C	T _{amb.} -45 °C to +40 °C	T _{amb.} -45 °C to +50 °C	T _{amb.} -45 °C to +60 °C
HST / HIT 150 W	0,8 A	T4	T4	T3	T 120 °C	T 130 °C	T 140 °C
HST / HIT 250 W	1,3 A	T4 ⁵⁾ / T3	T3	–	T 130 °C ⁵⁾ / T 150 °C	T 160 °C	–
HST / HIT 400 W	2,1 A	T3	–	–	T 180 °C	–	–

Ex-Floodlight



Floodlight enclosure

Ballast enclosure

Ordering details FZD 04

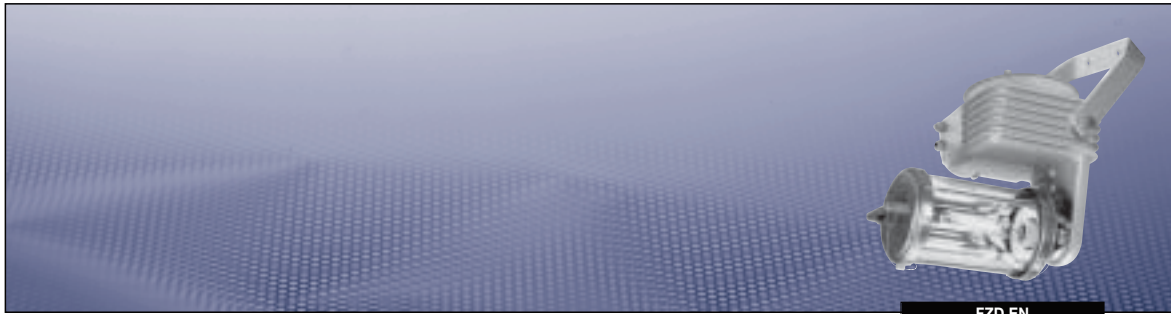
Lamp	Rated luminous flux ²⁾	Reflector	Order No.
Ballast enclosure in polyester with cable gland for mains connection			
250 W HIT/HST	19000 lm / 25000 lm	narrow beam	NOR 000 005 192 505
250 W HST/HIT	19000 lm / 25000 lm	wide beam	NOR 000 005 192 506
400 W HIT	35000 lm	narrow beam	NOR 000 005 194 105
400 W HIT	35000 lm	wide beam	NOR 000 005 194 106
400 W HST	48000 lm	narrow beam	NOR 000 005 194 005
400 W HST	48000 lm	wide beam	NOR 000 005 194 006

Ballast enclosure in stainless steel with cable gland for mains connection			
250 W HIT/HST	19000 lm / 25000 lm	narrow beam	NOR 000 005 192 501
250 W HIT/HST	19000 lm / 25000 lm	wide beam	NOR 000 005 192 502
250 W HIT	35000 lm	narrow beam	NOR 000 005 194 101
400 W HIT	35000 lm	wide beam	NOR 000 005 194 102
400 W HST	48000 lm	narrow beam	NOR 000 005 194 001
400 W HST	48000 lm	wide beam	NOR 000 005 194 002

Ballast enclosure in polyester without cable gland for mains connection			
250 W HIT/HST	19000 lm / 25000 lm	narrow beam	NOR 000 005 192 507
250 W HIT/HST	19000 lm / 25000 lm	wide beam	NOR 000 005 192 508
400 W HIT	35000 lm	narrow beam	NOR 000 005 194 107
400 W HIT	35000 lm	wide beam	NOR 000 005 194 108
400 W HST	48000 lm	narrow beam	NOR 000 005 194 007
400 W HST	48000 lm	wide beam	NOR 000 005 194 008

Ballast enclosure in steel without cable gland for mains connection			
250 W HIT/HST	19000 lm / 25000 lm	narrow beam	NOR 000 005 192 503
250 W HIT/HST	19000 lm / 25000 lm	wide beam	NOR 000 005 192 504
400 W HIT	35000 lm	narrow beam	NOR 000 005 194 103
400 W HIT	35000 lm	wide beam	NOR 000 005 194 104
400 W HST	48000 lm	narrow beam	NOR 000 005 194 003
400 W HST	48000 lm	wide beam	NOR 000 005 194 004

²⁾ depends on used lamps



FZD EN

Technical data

FZD EN	
Marking to 94/9/EC	Ex II 2 G EEx demq IIC T ¹⁾ Ex II 2 D IP66 T ¹⁾
EC-Type Examination Certificate	PTB 02 ATEX 1158
IECEX Certificate of Conformity	IECEX BKI 07.0002
Marking accd. to IECEx	Ex de IIC T3 or T4 Ex tD A21 IP66 T ¹⁾ °C
Permissible ambient temperature	-45 °C to +50 °C ¹⁾
Rated voltage	230 V AC ²⁾
Rated current	250 W: 1.3 A / 300 W: 2.1 A
Frequency	50 Hz
Power factor cos φ	> 0.9
Circuit	compensated circuit
Insulation class	I
Lamp/Illuminant	High pressure sodium lamp - tubular (HST) Metal halide lamp - tubular (HIT) 250 W or 400 W
Lamp cap	E 40 acc. EN 60061-1
Light efficiency in operation	66 %
Degree of protection accd. EN 60529	IP66
Cable glands/Gland plates/Enclosure drilling	2 x M25 x 1.5 with plastic cable gland Ex-e M25 for non-armoured cable Ø 8 - 17 mm, other plugged; option: with metal thread M20, without cable gland
Dimensions (L x W x H)	573 x 390 x 570 mm
Weight	28 kg (enclosure); 11 kg lamp module
Enclosure material	light alloy
Enclosure colour	grey
Protective cover/Protective bowl	die-cast light alloy
Options	tempered safety glass
Enclosure earth	2.5 mm ² PE

¹⁾ see table ²⁾ other voltages or frequencies on request

Additional lamp data

Lamp	Temperature class II 2 G		Temperature class II 2 D	
	T _{ambient} -45 °C to +40 °C	T _{ambient} -45 °C to +50 °C	T _{ambient} -45 °C to +40 °C	T _{ambient} -45 °C to +50 °C
HST / HIT 250 W	T ⁵⁾ / T3	T3	T 130 °C ⁵⁾ / T 150 °C	T 160 °C
HST / HIT 400 W	T3	-	T 180 °C	-

⁵⁾ mounting position ± 135 °C, see instruction

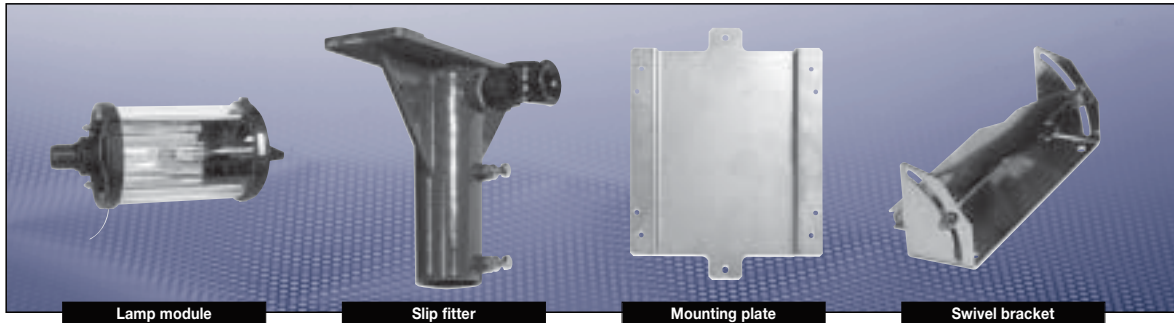
Ordering details

Lamp	Rated luminous flux ²⁾	Reflector	Order No.
FZD EN			
250 W HIT	19000 lm	wide-angle	1 3041 200 012
400 W HIT	35000 lm	wide-angle	1 3041 210 012
250 W HST	25000 lm	wide-angle	1 3041 200 012
400 W HST	48000 lm	wide-angle	1 3041 205 012
250 W HIT	19000 lm	narrow-angle	1 3041 200 011
400 W HIT	35000 lm	narrow-angle	1 3041 210 011
250 W HST	25000 lm	narrow-angle	1 3041 200 011
400 W HST	48000 lm	narrow-angle	1 3041 205 011

Option: with metal thread M20 x 1.5 without cable gland

Delivery without lamp, incl. mounting frame

Ex-Floodlight



Lamp module

Slip fitter

Mounting plate

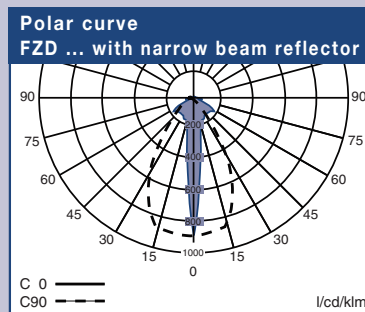
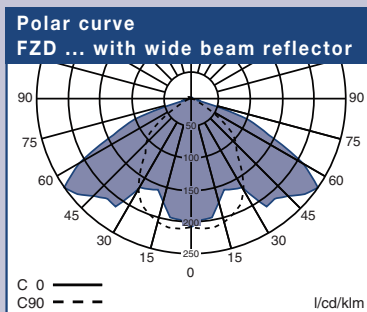
Swivel bracket

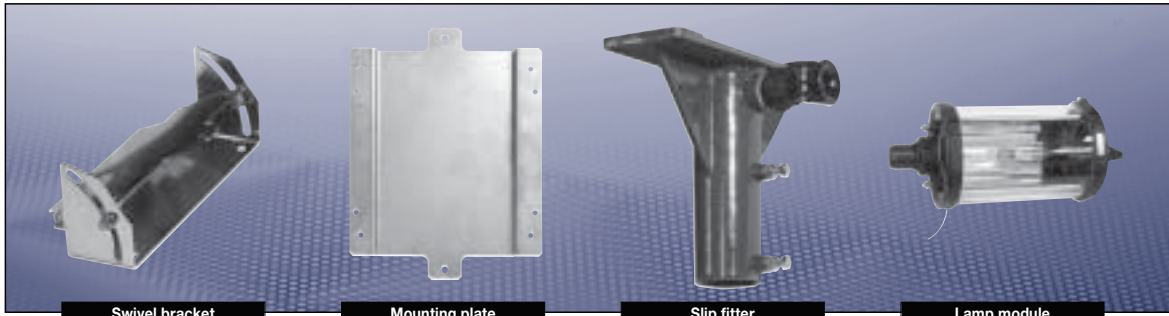
Accessories

FZD 04				
Type	Content	FZD 04	FZD EN	Order No.
Lamp module	Lamp module 250 W/400 W complete with internal reflector, narrow-angle reflector	X	X	1 3041 000 011
	wide-angle reflector	X	X	1 3041 000 012
Slip fitter	fitter for pole 1 1/4" mounting complete with fixing screws	X	–	NOR 000 005 190 021
Slip fitter	fitter for pole 2" mounting complete with fixing screws	X	–	NOR 000 005 190 022
Swivel bracket	Adjustable hinge for wall/pole mounting	X	–	NOR 000 005 190 023
Mounting plate	Stainless steel plate for wall or pole installation (using pipe clamps, not incl.)	X	–	NOR 000 005 190 026
Pipe clamp	1 1/4" pipe clamp (1 pcs) galvanized Ø 38 - 42 mm ²	X	–	2 2480 462 000
Pipe clamp	1 1/4" pipe clamp (1 pcs) stainless steel Ø 38 - 42 mm ²	X	–	2 2480 464 000
Pipe clamp	1 1/2" pipe clamp (1 pcs) galvanized Ø 47 - 51 mm ²	X	–	2 2480 472 000
Pipe clamp	2" pipe clamp (1 pcs) galvanized Ø 56 - 60 mm ²	X	–	2 2480 482 000

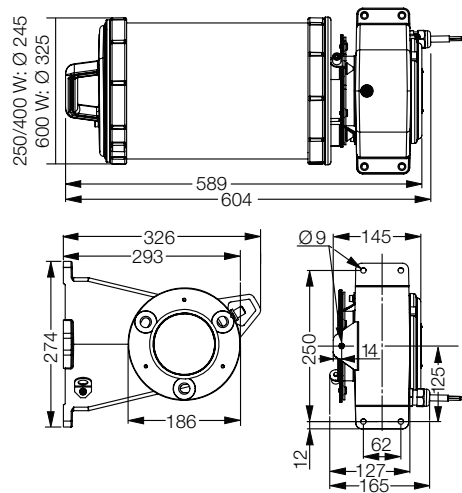
Lamps and fixing accessories are not included

Polar curve

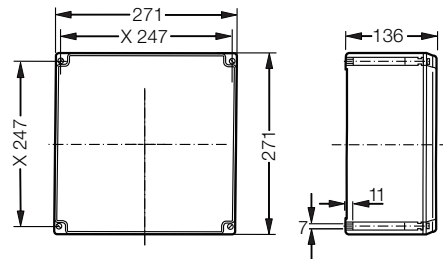




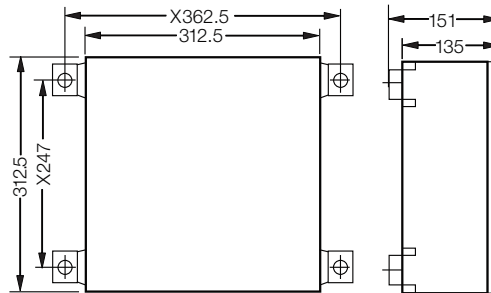
Dimensions drawing



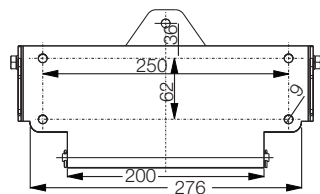
FZD 04 250/400 W*
*600 W on request



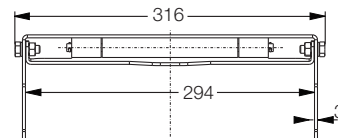
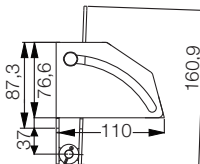
Ballast enclosure: plastic



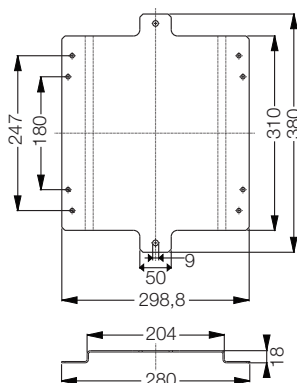
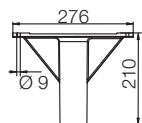
Ballast enclosure: stainless steel



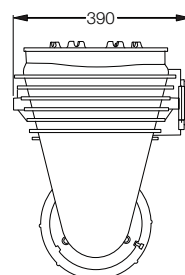
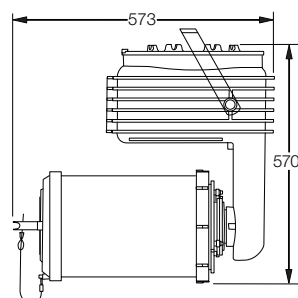
Swivel bracket



Slip fitter



Mounting plate



Dimensions in mm

E X - F L O O D L I G H T

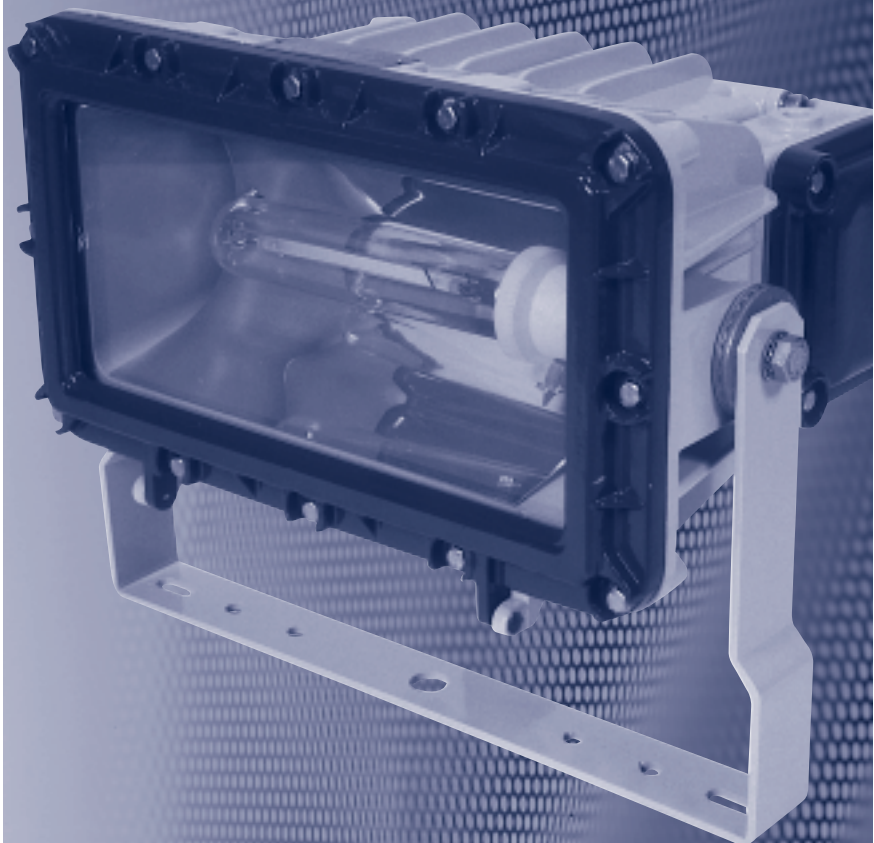
PX 04 for high pressure discharge lamps Metal version for Zone 1/21

The explosion-protected floodlight PX 04 for high pressure discharge and halogen lamps are in accordance to the ATEX-Directive 94/9/EG. They are certified for use in the Zones 1, 21, 2 and 22.

The light fitting housing is made of copper-free aluminium, the glass cover of a mechanical and thermal resistant borosilicate glass. All external screws are made of stainless steel.

The electrical components are thermically separated in their own compartment and have a separate Ex-e maintenance-friendly connection compartment.

With the adjustable mounting frame an optimum on light guidance is reached. Due to the robust architecture it has more than proven its reliability in chemical factories and offshore platforms for illuminating large areas and selective large objects.



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**For environmental temperatures
of up to + 55° C**

Degree of protection IP67

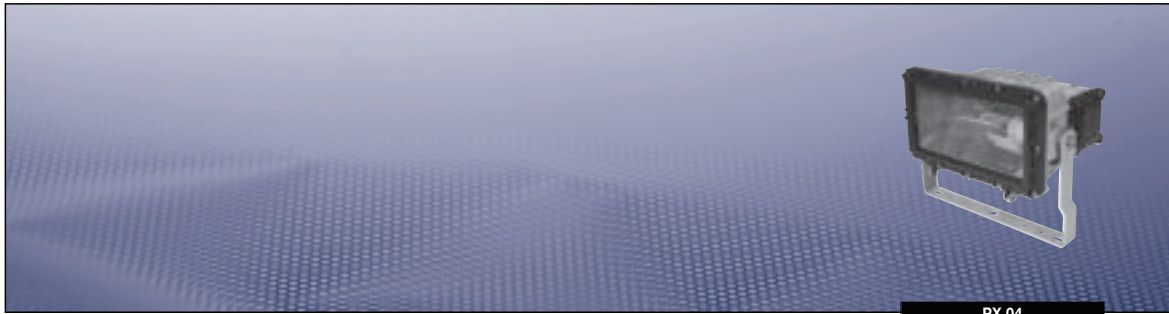
Robust light alloy housing

Captive screws made of stainless steel

Large Ex-e connection compartment

Easy to maintain

Easy to install



PX 04

Technical data

PX 04...		
Marking to 94/9/EC	II 2 G EEx de IIB T ¹⁾ II 2 D Ex tD A21 IP67 T ¹⁾ °C	
EC-Type Examination Certificate	PTB 04 ATEX 1046	
Permissible ambient temperature	-20 °C to +55 °C	
Rated voltage	with control gear	230 V AC ²⁾
	without control gear	≤ 250 V AC
Rated current	4)	
Frequency	50 Hz ²⁾	
Power factor cos φ	> 0.85	
Circuit	electromagnetic circuit	
Connecting terminals	L1, N: 2 x 4 mm ² ; PE: 2 X 6 mm ²	
Insulation class	I	
Lamp/Illuminant	1)	
Lamp cap	E 40 acc. IEC 60238	
Light efficiency in operation	62 %	
Degree of protection accord. EN 60529	IP67	
Cable glands/Gland plates/Enclosure drilling	Indirect entries: 2 x M25 x 1.5 with or without cableglands (see table), one plugged	
Dimensions (L x W x H)	546 x 443 x 396 mm (with control gear) 546 x 443 x 340 mm (without control gear)	
Weight	approx. 31 kg (with control gear) approx. 23 kg (without control gear)	
Type of mounting	ceiling mounting	
Enclosure material	light alloy	
Enclosure colour	grey	
Protective cover/protective bowl	borosilicate glass	
Reflector	polished aluminium reflector	
Enclosure earth	2 x 6 mm ²	

¹⁾ see ordering details

²⁾ other voltages or frequencies on request

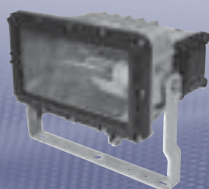
³⁾ depends on lamp

⁴⁾ see ordering details

Additional lamp data

Type	Rated luminous flux ³⁾	Temperature class II 2 G		Max. surface temp. II 2 D	
		T _{ambient} -20 °C to +40 °C	T _{ambient} -20 °C to +55 °C	T _{ambient} -20 °C to +40 °C	T _{ambient} -20 °C to +55 °C
HS - 70 W	6000 lm	T4	T4	T85 °C	T100 °C
HL - 70 W	6300 lm	T4	T4	T90 °C	T105 °C
HS - 150 W	17000 lm	T4	T4	T115 °C	T130 °C
HL - 150 W	14000 lm	T4	T4	T105 °C	T120 °C
HS - 250 W	33000 lm	T4	T3	T130 °C	T145 °C
HL - 250 W	20000 lm	T4	T3	T130 °C	T145 °C
HME - 250 W	13000 lm	T3	T3	T150 °C	T165 °C
HST - 400 W	55500 lm	T3	T3	T175 °C	T190 °C
HIT - 400 W	35000 lm	T3	T3	T170 °C	T185 °C
HME - 400 W	22000 lm	T3	T2	T186 °C	T201 °C
HST - 600 W	90000 lm	T3	T2	T195 °C	T210 °C
QT - 500 W	10000 lm	T3	T2	T185 °C	T200 °C

Ex-Floodlight



PX 04

Ordering details

Type	Reflector	Lamp	Lamp	Rated current	Ex-e metal cable gland for cable	Order No.
PX 0460	narrow beam	High pressure sodium lamp	HST 600 W	3.13 A	Ø 9 - 14 mm	NOR 000 115 170 243
PX 0460	narrow beam	High pressure sodium lamp	HST 600 W	3.13 A	–	NOR 000 115 170 215
PX 0460	wide beam	High pressure sodium lamp	HST 600 W	3.13 A	Ø 9 - 14 mm	NOR 000 115 170 343
PX 0460	wide beam	High pressure sodium lamp	HST 600 W	3.13 A	–	NOR 000 115 170 315
PX 0440S	narrow beam	High pressure sodium lamp	HS_ 400 W ¹⁾	2.02 A	Ø 9 - 14 mm	NOR 000 115 170 244
PX 0440S	narrow beam	High pressure sodium lamp	HS_ 400 W ¹⁾	2.02 A	–	NOR 000 115 170 221
PX 0440S	wide beam	High pressure sodium lamp	HS_ 400 W ¹⁾	2.02 A	Ø 9 - 14 mm	NOR 000 115 170 344
PX 0440S	wide beam	High pressure sodium lamp	HS_ 400 W ¹⁾	2.02 A	–	NOR 000 115 170 321
PX 0440H	narrow beam	High pressure metal halide	HI_ 400 W ²⁾	1.98 A	Ø 9 - 14 mm	NOR 000 115 170 149
PX 0440H	narrow beam	High pressure metal halide	HI_ 400 W ²⁾	1.98 A	–	NOR 000 115 170 222
PX 0440H	wide beam	High pressure metal halide	HI_ 400 W ²⁾	1.98 A	Ø 9 - 14 mm	NOR 000 115 170 349
PX 0440H	wide beam	High pressure metal halide	HI_ 400 W ²⁾	1.98 A	–	NOR 000 115 170 322
PX 0440M	narrow beam	Mercury vapor	HME 400 W	–	–	NOR 000 115 170 251
PX 0425	narrow beam	H.P. sodium lamp/Metal halide	HS_ / HI_250 W	1.35 A	Ø 9 - 14 mm	NOR 000 115 170 245
PX 0425	narrow beam	H.P. sodium lamp/Metal halide	HS_ / HI_250 W	1.35 A	–	NOR 000 115 170 227
PX 0425	wide beam	H.P. sodium lamp/Metal halide	HS_ / HI_250 W	1.35 A	Ø 9 - 14 mm	NOR 000 115 170 345
PX 0425	wide beam	H.P. sodium lamp/Metal halide	HS_ / HI_250 W	1.35 A	–	NOR 000 115 170 327
PX 0425M	narrow beam	Mercury vapor	HME 250 W	–	–	NOR 000 115 170 257
PX 0415	narrow beam	H.P. sodium lamp/Metal halide	HS_ / HI_150 W	1.05 A	Ø 9 - 14 mm	NOR 000 115 170 246
PX 0415	narrow beam	H.P. sodium lamp/Metal halide	HS_ / HI_150 W	1.05 A	–	NOR 000 115 170 233
PX 0415	wide beam	H.P. sodium lamp/Metal halide	HS_ / HI_150 W	1.05 A	Ø 9 - 14 mm	NOR 000 115 170 346
PX 0415	wide beam	H.P. sodium lamp/Metal halide	HS_ / HI_150 W	1.05 A	–	NOR 000 115 170 333
PX 0407	narrow beam	High pressure sodium lamp	HS_ 70 W	0.35 A	Ø 9 - 14 mm	NOR 000 115 170 230
PX 0407	narrow beam	High pressure sodium lamp	HS_ 70 W	0.35 A	–	NOR 000 115 170 229
PX 0405	narrow beam	Incandescent IGA 110	500 W	2.17 A	Ø 9 - 14 mm	NOR 000 115 170 248
PX 0405	narrow beam	Incandescent IGA 110	500 W	2.17 A	–	NOR 000 115 170 209
PX 0405	wide beam	Incandescent IGA 110	500 W	2.17 A	Ø 9 - 14 mm	NOR 000 115 170 348
PX 0405	wide beam	Incandescent IGA 110	500 W	2.17 A	–	NOR 000 115 170 309

¹⁾ Valid for lamps HI_ 400 W (4.2 A)

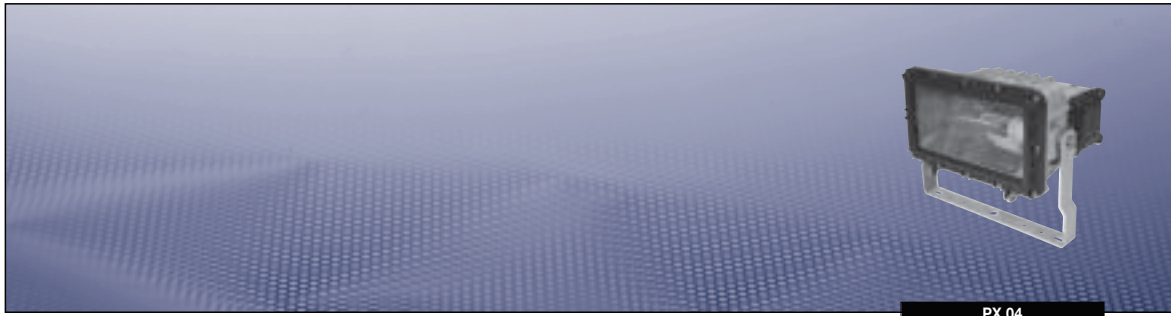
²⁾ Valid for lamps HI_ 400 W (3.5 A)

Lamps and fixing accessories are not included

Accessories

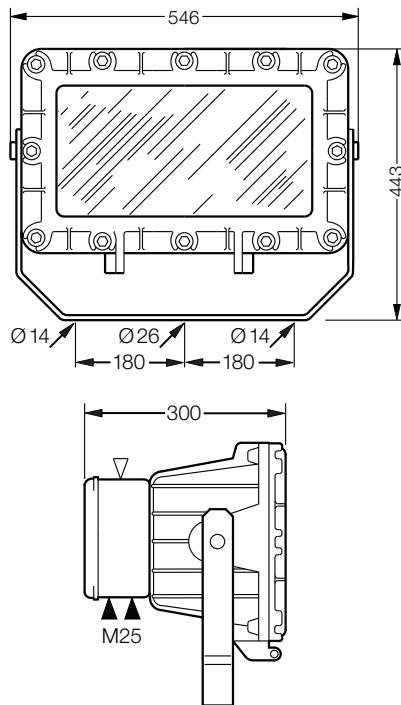
PX 04

Type	Order No.
Pipe fixing (Ø 48 mm to Ø 64 mm) SB	NOR 000 005 170 583
Portable stand ATP painted steel	NOR 000 005 170 715
Horizontal steel shade	NOR 000 005 170 608
Vertical steel shade	NOR 000 005 170 591



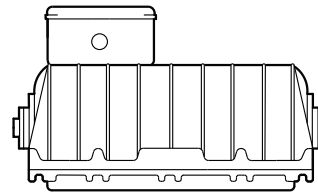
PX 04

Dimensions drawing

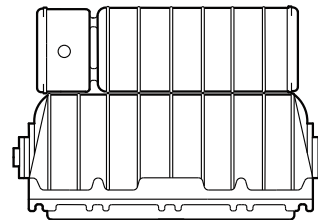


▷ optional entry, on request
▶ entry

PX 04

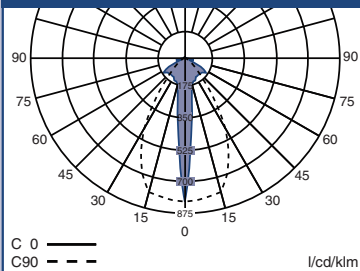


PX 04
without ballast for QT- and HME-SB-Lamps

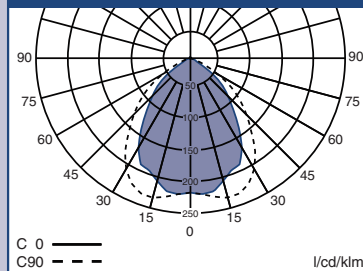


PX 04
with ballast for all high pressure discharge lamps

Polar curve
PX 04 with wide beam reflector



Polar curve
PX 04 with narrow beam reflector



Dimensions in mm

E X - F L O O D L I G H T

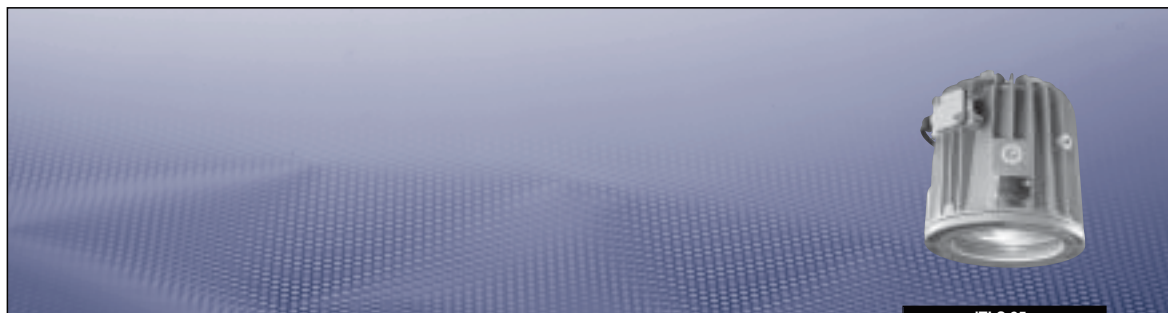
dTLS 85... for high pressure discharge lamps Metal version for Zone 1/2

The explosion-protected floodlight dTLS 85... for high pressure discharge lamps is in accordance to the ATEX-Directive 94/9/EG. They are certified for use in the Zones 1 and 2. The housing is made of a light alloy with a powdered coating. The pressed-in thread-ring for the flameproof thread gap is made of brass. This provides for an easy lamp replacement even after a longer operating periods. The floodlight is designed for outdoor use. Due to the high safety standard it has more than proven its reliability in chemical factories and offshore platforms for illuminating large areas and selective large objects. The vaporized reflectors are designed for various angles of dispersion.



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- Cost-effective illumination of large objects**
- For use in chemical factories and offshore platforms**
- Robust light alloy housing with a powdered coating**
- Easy lamp replacement even after extended time of operation**
- Vaporized reflector for various angles of dispersion**



dTLS 85...

Technical data

dTLS 85250 / dTLS 85070	
Marking to 94/9/EC	Ⓔ II 2 G EEx de IIC T3
EC-Type Examination Certificate	DMT 03 ATEX E 039
Permissible ambient temperature	-20 °C to +50 °C
Permissible ambient temperature (option)	-45 °C to +50 °C (option)
Rated voltage	230 V AC ¹⁾
Rated current	²⁾
Frequency	50 Hz ¹⁾
Power factor cos φ	0.5 ind. / 0.9 comp.
Switch rating	inductive circuit / compensated circuit
Connecting terminals	L + N + PE; 2 x 2.5 mm ²
Insulation class	I
Lamp/Illuminant	high pressure metal-halide lamp HIT-DE high pressure sodium vapour lamp HST-DE
Lamp cap	Fc2 / Rx 7s
Rated luminous flux ¹⁾	HIT-DE 250 W: 19000 lm HST-DE 250 W: 25000 lm HST-DE 70 W: 6800 lm
Light efficiency in operation	72 % 46 % with diffuser lens
Degree of protection accd. EN 60529	IP65
Cable glands/Gland plates/Enclosure drilling ¹⁾	1 x M25 x 1.5 for cables from Ø 8 - 17 mm 1 x M25 x 1.5 with blanking plug
Weight	approx. 25 kg approx. 32 kg with compensation box
Enclosure material	light alloy with powder coating, grey
Enclosure colour	grey
Protective cover/protective bowl	borosilicate glass

¹⁾ Other voltages, frequencies or entries on request

²⁾ see ordering details

Ordering details

Type	Lamp	Rated current	Power factor cos φ	Order No.
dTLS 85250 S with diffuser lens	250 W HIT/HST	3.0 A	0.4 ind.	CGS 123 8588 P0001
	250 W HIT/HST	1.5 A	0.9 comp.	CGS 123 8588 P1001
dTLS 85250 P with parabolic-reflector	250 W HIT/HST	3.0 A	0.4 ind.	CGS 123 8588 P0002
	250 W HIT/HST	1.5 A	0.9 comp.	CGS 123 8588 P1002
dTLS 85070 P with reflector	70 W HST	0.35 A	0.95 comp.	CGS 123 8588 P0003

Lamps and fixing accessories are not included

Ex-Floodlights



dTLS 85...

Ordering details

Type	Lamp	Rated current	Power factor cos	Order No.
dTLS 85250 S with diffuser	250 W HIT/HST	3.0 A	0.4 ind.	CGS 123 8588 P0001
	250 W HIT/HST	1.5 A	0.9 comp.	CGS 123 8588 P1001
dTLS 85250 P with parabolic-reflector	250 W HIT/HST	3.0 A	0.4 ind.	CGS 123 8588 P0002
	250 W HIT/HST	1.5 A	0.9 comp.	CGS 123 8588 P1002

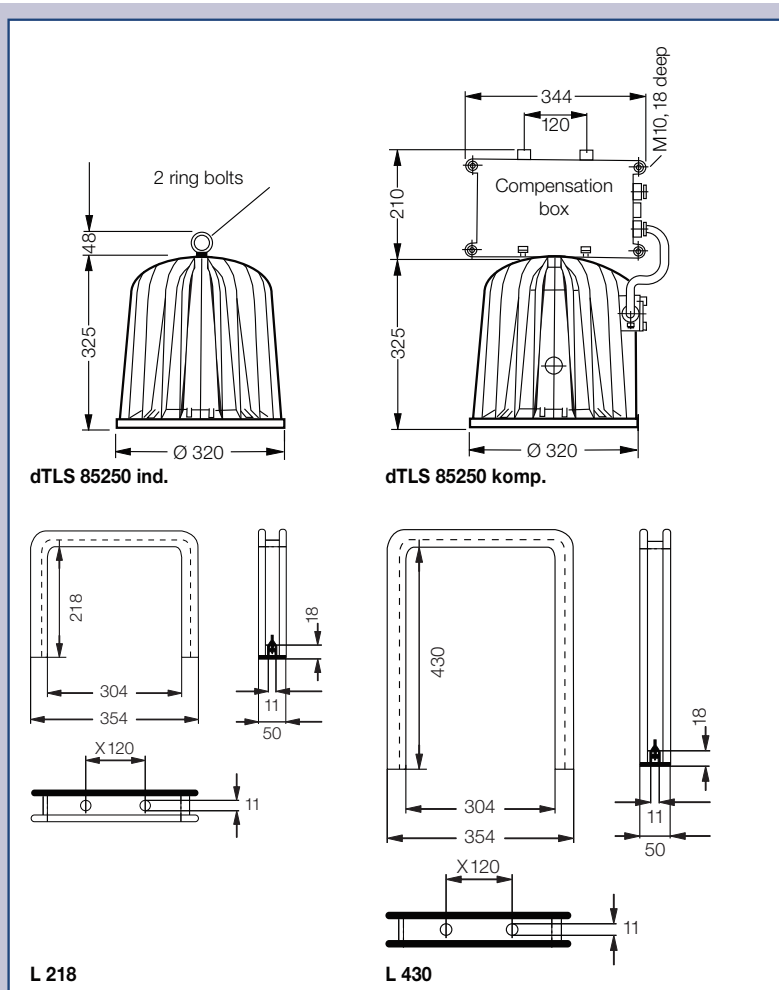
Lamps and fixing accessories are not included

Accessories

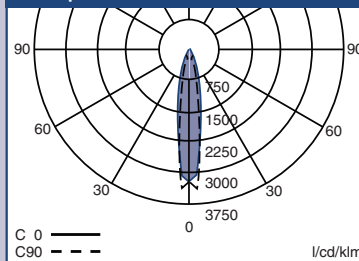
dTLS 85250

Type	Version	Order No.
Eye bolt (10 pcs.)	M10	GHG 690 1921 R0003
Mounting bracket L 218	for inductive version	GHG 690 1913 R0001
Mounting bracket L 430	for compensated version	GHG 690 1913 R0002

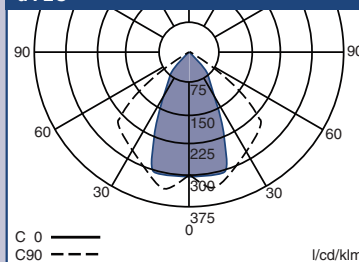
Dimensions drawing



Polar curve with parabolic reflector dTLS



Polar curve with diffuser lens dTLS



Dimensions in mm

E m e r g e n c y U n i t

**Explosion-protected, modular GHG 664 emergency lighting supply unit
with explosion-protected dTLS 85070 P floodlight for high-pressure lamp**

Safety for escape routes and evacuation equipment in the event of an emergency and power failure

In the event of a power failure, the new explosion-protected **GHG 664 emergency pack** enables the battery-supported operation of a 70 W sodium high-pressure lamp for the duration of 1.5 hours. When used in combination with the powerful explosion-protected **dTLS 85070 P** floodlight, escape routes and evacuation equipment (life boats, life rafts, ab-seiling equipment or rescue cushions, etc.) can be safely illuminated, even from larger distances. They have been designed especially for offshore use on platforms and ships.

Both the **GHG 664 emergency pack** and the **dTLS 85070 P** floodlight are in explosion-protected design in accordance with the ATEX Directive 94/9/EC and have been approved for use in Zones 1 and 2.

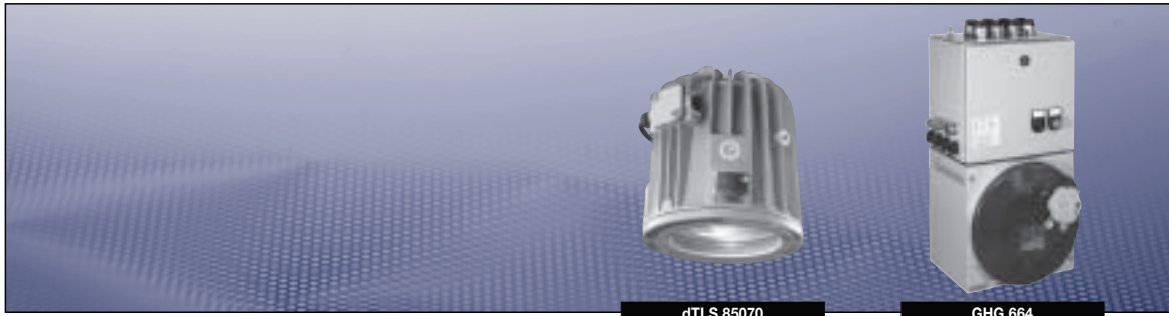
The **emergency pack GHG 664** features a flameproof enclosure for the electronic components and a flanged-on box in the type of protection "increased safety" that accommodates the battery and the connection terminals.

The **dTLS 85070 P** floodlight, which is mounted separately from the emergency pack, features a robust enclosure made of powder-coated aluminium with a borosilicate glass lens, a parabolic reflector for the 70 W sodium vapour high-pressure lamp.

Thus, for example, with a luminous spot height of 9 m, it is possible to illuminate an area measuring 15 x 15 m with 1 lx.

- Suited for use on offshore platforms and ships**
- Safe light for evacuation equipment in hazardous areas**
- Emergency lighting duration of 1.5 hours in the event of a power failure**
- Large Ex-e connection box to facilitate installation**
- Maintenance-friendly due to simple replacement of lamps and batteries**
- Continuous and standby light with switching-off device**





dTLS 85070

GHG 664

Technical data

GHG 664

Marking to 94/9/EC	Ex II 2 G Ex de IIC T6
EC-Type Examination Certificate	PTB 07 ATEX 2002 X
Permissible ambient temperature	-5 °C to +40 °C
Rated voltage	220 - 240 V AC
Rated frequency	50 - 60 Hz
Output voltage	230 V AC
Power consumption (charging operation)	< 40 VA
Nominal output	max. 80 VA
Circuit	electronic converter
Insulation class	I
Battery	2 x 12 V, 12 Ah
Rated operating duration (emergency operation)	1.5 h
Charging duration (> 90 % C)	< 24 h
Degree of protection acc. to EN 60529	IP66
Weight	approx. 48 kg (incl. battery)
Enclosure material	light alloy with powder coating, grey

Floodlight dTLS 85070 P

Marking to 94/9/EC	Ex II 2 G EEx de IIC T4
EC-Type Examination Certificate	DMT 03 ATEX E 039
Permissible ambient temperature	-20 °C to +50 °C
Rated voltage	220 - 240 V, 50 - 60 Hz
Connecting terminals	L + N + PE; max. 2.5 mm²
Insulation class	I
Lamp/Illuminant	High pressure sodium lamp HST-DE 70 W
Lamp cap	RX7s
Rated luminous flux ¹⁾	6800 lm
Light efficiency in operation	72 %
Degree of protection acc. to EN 60529	IP65
Cable	1 x M25 x 1.5 for cables from Ø 8 - 17 mm 1 x M25 x 1.5 with blanking plug
Weight	approx. 18 kg
Enclosure material	light alloy with powder coating, grey
Light transmitting cover	Borosilicate glass

¹⁾ depends on lamp

Ordering details

Type	Order No.
Emergency Unit (GHG 664 incl. battery plus dTLS 85070 P)	GHG 660 1915 R0001

Lamps and fixing accessories are not included

Accessories

Mounting bracket L218

Type	Order No.
Mounting bracket L218 für dTLS 85070 P	GHG 690 1913 R0001

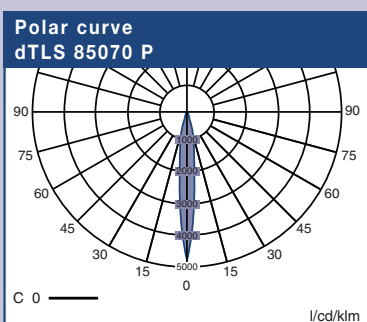
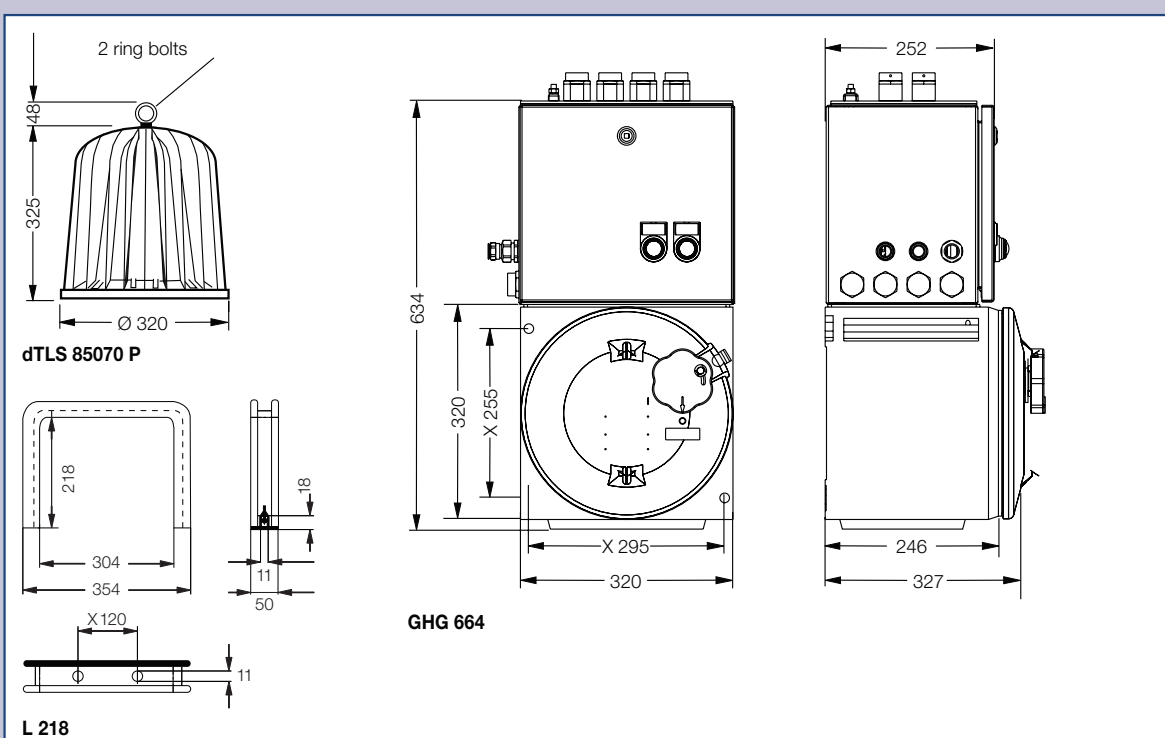
Emergency Unit



GHG 664

dTLS 85070

Dimension drawing | Polar curve



Dimensions in mm

EX - PENDANT LIGHT FITTINGS**dHLS 85... for high pressure discharge lamps
Metal version for Zone 1/2**

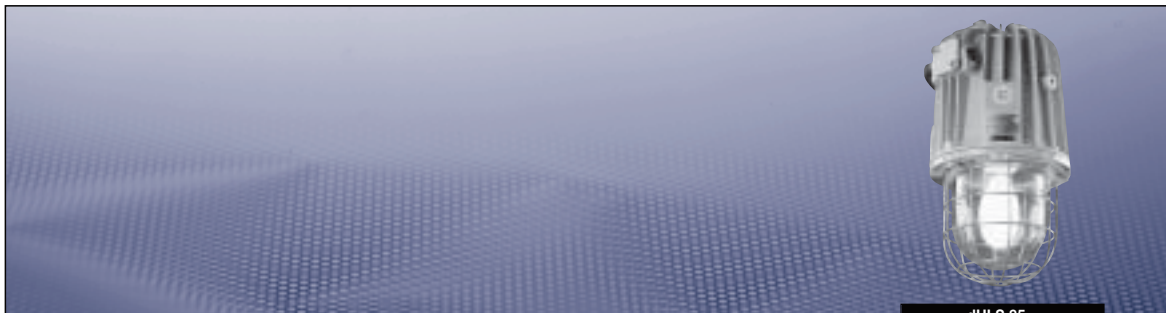
The explosion-protected pendant light fittings dHLS 85... for high pressure discharge lamps are in accordance to the ATEX-Directive 94/9/EG. They are certified for use in the Zones 1 and 2.

The housing is made of a light alloy with a powdered coating. The pressed-in thread-ring for the flameproof thread gap is made of brass. This provides for an easy lamp replacement even after a longer operating periods.

The pendant light fitting is designed for outdoor use. Due to the high safety standard it has more than proven its reliability in chemical factories and offshore platforms for illuminating large areas and selective large objects. The light fitting is fitted with a dome-shaped glass cover and can also be fitted with an external reflector.



-  **Cost-effective illumination of large objects**
-  **For use in chemical factories and offshore platforms**
-  **Robust light alloy housing with a powdered coating**
-  **Easy lamp replacement even after extended time of operation**
-  **Or with an external reflector**



dHLS 85...

Technical data

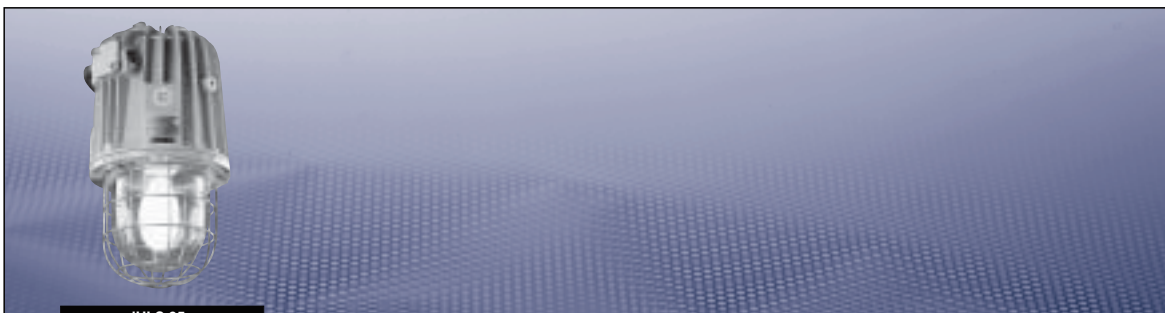
dHLS 85250 dHLS 85400	
Marking to 94/9/EC	Ⓔ II 2 G
EC-Type Examination Certificate	DMT 03 ATEX E 039
Type of protection	EEx de IIC T3
Permissible ambient temperature	-20 °C to +50 °C / -20 °C to +55 °C (250 W) -45 °C to +55 °C (option)
Rated voltage	230 V AC
Rated current	¹⁾
Frequency	50 Hz
Power factor cos φ	0.5 ind. / 0.9 comp.
Connecting terminals	L + N + PE; 2 x 2.5 mm ²
Insulation class	I
Lamp/Illuminant	high pressure mercury vapour lamp HME 250 W / 400 W high pressure sodium lamp HSE 250 W / 400 W
Lamp cap	E 40 acc. IEC 60238
Light efficiency in operation	77 % 55 % (AR) ³⁾
Degree of protection accd. EN 60529	IP65
Cable glands/Gland plates/Enclosure drilling	1 x M25 x 1.5 for cables from Ø 8 - 17 mm 1 x M25 x 1.5 with blanking plug
Dimensions (L x W x H)	570 x Ø 320 mm (without compensation box) 780 x Ø 320 mm (with compensation box)
Weight	approx. 30 kg approx. 37 kg with compensation box
Enclosure material	light alloy with powder coating, grey
Protective cover/protective bowl	borosilicate glass

¹⁾ see table

²⁾ depends on used lamps

³⁾ AR = external reflector

Ex-Pendant light fittings



dHLS 85...

Ordering details

Type	Lamp	Rated luminous flux ²⁾	Rated current	Power factor cos	Order No.
dHLS 85250	250 W HME	13000 lm	2.2 A	0,5 ind.	CGS 123 8688 P0001
	250 W HME	13000 lm	1.1 A	0,9 comp.	CGS 123 8688 P1001
	250 W HSE	25000 lm	3.0 A	0,5 ind.	CGS 123 8688 P2001
	250 W HSE	25000 lm	1.5 A	0,9 comp.	CGS 123 8688 P3001
dHLS 85400	400 W HME	22000 lm	3.25 A	0,5 ind.	CGS 123 8788 P0001
	400 W HME	22000 lm	2.5 A	0,9 comp.	CGS 123 8788 P1001
	400 W HSE	47000 lm	4.4 A	0,5 ind.	CGS 123 8788 P2001
	400 W HSE	47000 lm	3.0 A	0,9 comp.	CGS 123 8788 P3001

Lamps and fixing accessories are not included

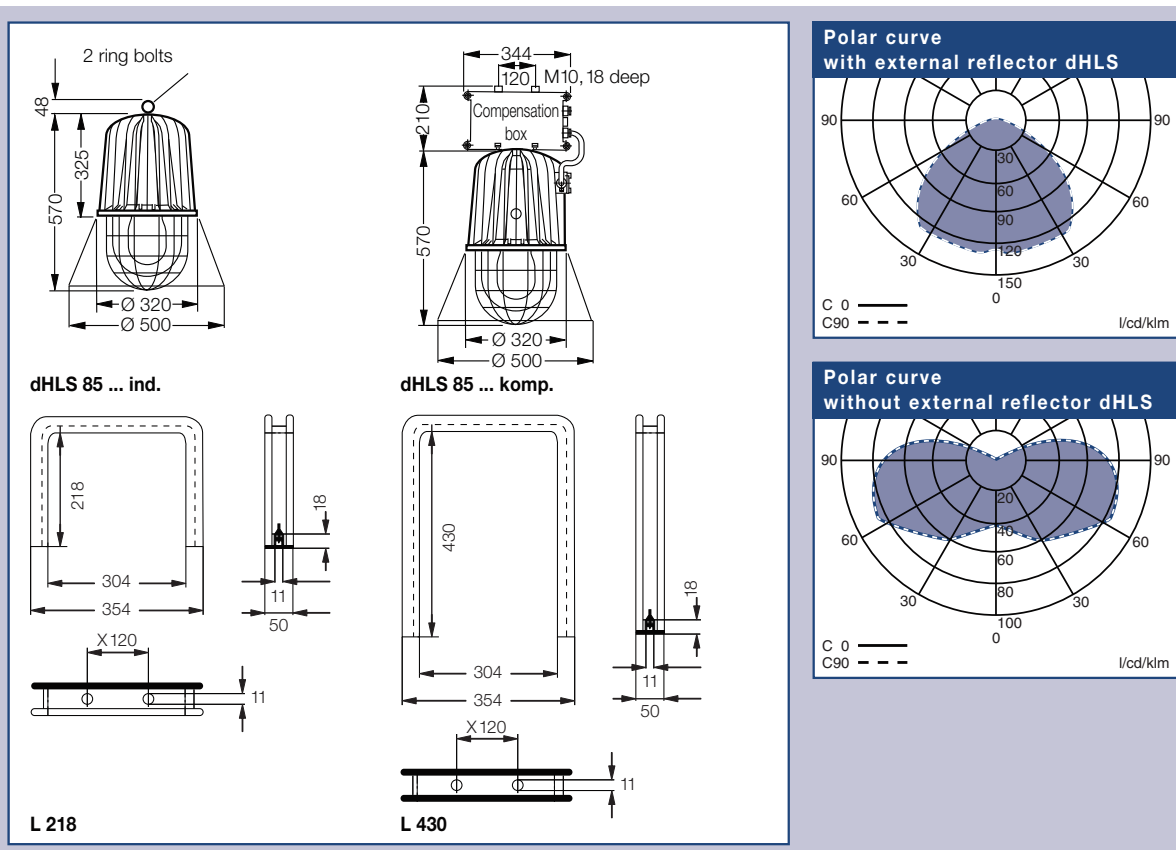
²⁾ depends on used lamps

Accessories

dHLS 85250 | dHLS 85400

Type	Version	Order No.
Eye bolt (10 pcs.)	M10	GHG 690 1921 R0003
Mounting bracket L 218	for inductive version	GHG 690 1913 R0001
Mounting bracket L 430	for compensated version	GHG 690 1913 R0002
External reflector (AR)	Metal, white powder coated	CGS 223 7990 P1000

Dimensions drawing



EX - V E S S E L L I G H T F I T T I N G

KFL with halogen reflector lamp Metal version for Zone 1

This explosion-protected vessel light fitting KFL is in accordance to the ATEX-Directive 94/9/EG. It has been certified for use in the Zones 1 and 2.

This powerful vessel light fitting is fitted with a halogen reflector incandescent lamp and is ideally equipped for the usage in the illumination of boilers, containers and agitators.

The housing is made of a copper-free aluminium. The aluminium collar has a PTFE (Teflon) coating, additionally it has a viton sealant.

With the light fitting holder PR it can be mounted on inspection windows according to DIN 28120.

This vessel light fitting is equipped with a high voltage halogen reflector lamp 230 V/50 W.

Alternatively customer can also use a 230 V/20 W lamp.



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Compact architecture

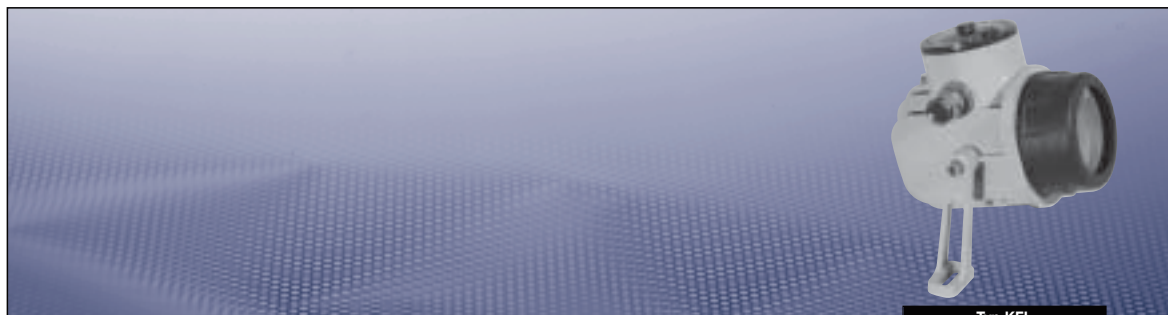
Connection ready for 230 V AC

**With halogen reflector incandescent lamp
with 50 W**

High illumination

**Generously dimensioned
terminal compartment**

**Mounting onto inspection windows
according to DIN 28120**



Typ KFL

Technical data

KFL 50	
Marking to 94/9/EC	Ex II 2 G EEx de IIC T3 Ex II 2 D IP67 T140 °C
EC-Type Examination Certificate	LOM 02 ATEX 2035
IECEX Certificate of Conformity	IECEX BKI 07.0009
Marking acc. to IECEX	Ex de IIC T3 Ex tD A21 IP67 T140 °C
Permissible ambient temperature	-20 °C to +55 °C
Permissible ambient temperature (option)	-50 °C to +55 °C
Rated voltage	230 V, 50/60 Hz
Rated current	0.35 A
Power consumption	50 VA
Connecting terminals	2 x 2.5 mm ² ; PE internal and external 6 mm ²
Insulation class	I
Lamp/Illuminant	50 W (halogen lamp type Sylvania included, others on request)
Lamp cap	Ba 15d
Degree of protection accd. EN 60529	IP67
Cable glands/Gland plates/Enclosure drilling	2 x M25 x 1.5, one plugged
Weight	3 kg
Enclosure material	light alloy with powder coating
Enclosure colour	grey
Protective cover/protective bowl	borosilicate glass
Options	20 W lamp (T4 / T120 °C)

Ordering details

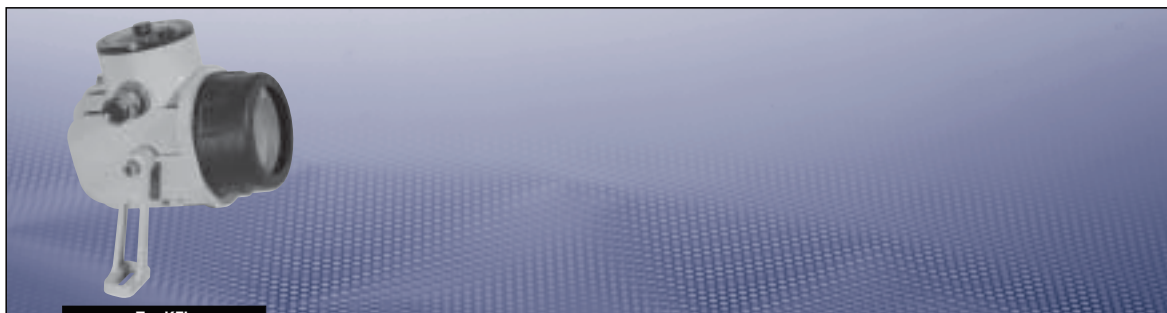
Type	Entry thread	Cable entry Exe for cable Ø	Blanking plug	Order No.
(T ambient -20 °C to +55 °C)				
KFL 50 W	M25	9 - 14 mm	1 x M25	NOR 000 005 140 015
KFL 50 W	M25	-	1 x M25	NOR 000 005 140 010
KFL 50 W TIM indirect 230 V - 12 V	M25	9 - 14 mm	1 x M25	NOR 000 005 140 701
KFL 50 W TIM	M25	-	1 x M25	NOR 000 005 140 897
(T ambient -50 °C to +55 °C)				
KFL 50 W	M25	-	1 x M25	NOR 000 005 140 900
KFL 50 W TIM	M25	-	1 x M25	NOR 000 005 140 919

Supply with support device as standard (lamp holder PR).

Accessories

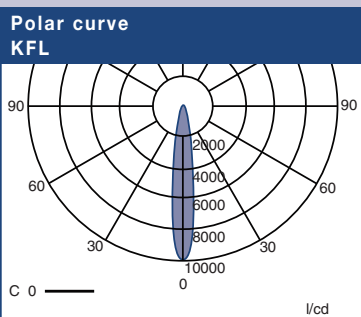
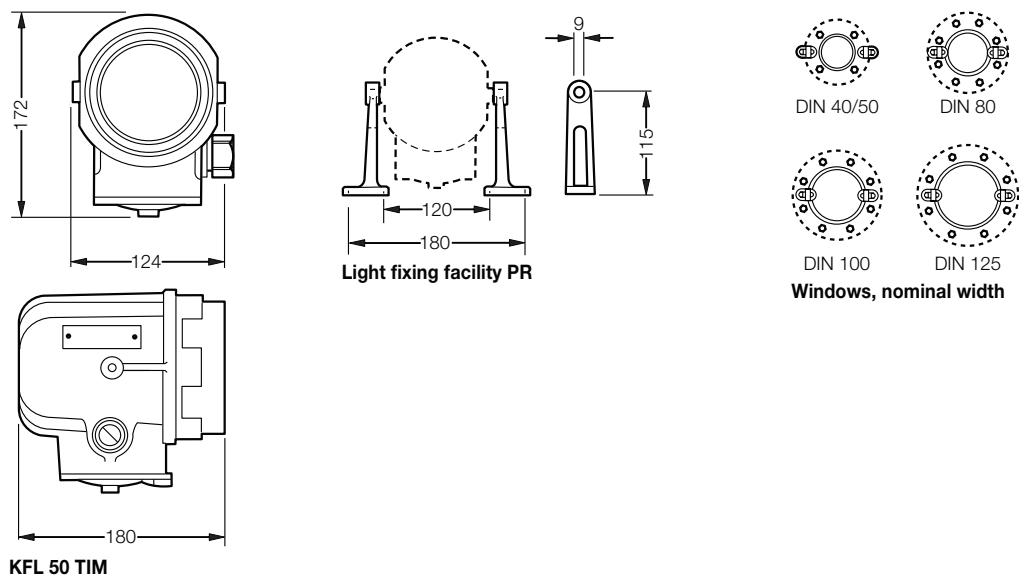
KFL 50			
For fitting	Lamp type	Type	Order No.
KFL	Halogene reflector lamp	230 V/50 W	3 2369 100 001
KFL	Halogene reflector lamp	230 V/20 W	3 2369 100 002
KFL	Transport handle	AT	NOR 000 005 140 809
KFL	Antiglare shield	PAD	NOR 000 005 140 700
KFL	Mounting legs out of center	PI	NOR 000 005 140 776

Ex-Tank inspection luminaires KFL 50



Typ KFL

Dimensions drawing



Dimensions in mm

EX - PENDANT LIGHT FITTING

**NVMV for high pressure discharge lamps of up to 400 W
Metal version for Zone 2/22**

The explosion-protected light fittings of the NVMV series are in accordance to the ATEX-Directive 94/9/EG.

They have been built and tested according to the European Standard for Gas-Ex-Areas of Zone 2 classification as well as to EN 61241-1 for use in Dust-Ex-Areas of Zone 22.

The light fittings series NVMV with the small housing is designed for lamps with a rating of 70 W up to 150 W. The large housing is designed for lamps with a rating of 250 W up to 400 W.

The transparent part consists of a temperature stable, impact resistant glass globe that refracts the light and which is protected with a safety-guard.

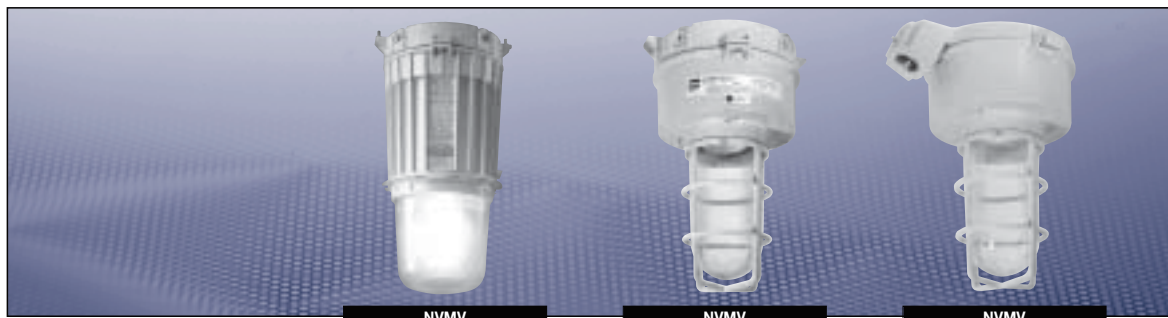
The modular architecture allows for a quick and cost-effective installation of the light fittings. For pole mounting, a thread of 1 1/4" BSP is integrated in the light fitting.

Apart from ceiling mounting, there are versions available for pole mounting (25° angle) and wall mounting.

A particularly durable sealing system for use under extreme climatic conditions brings additional reliability. The restricted breathing version allows a high illumination combined with a high temperature classification.



- Ideal for installation at low or medium heights, for wall, ceiling or pole mounting
- Compact and light-weight
- Degree of protection IP66/67
- High corrosion resistance
- Restricted breathing version for temperature classes up to T4
- Environmental temperatures up to +55 °C



Technical data

NVMV CHAMP for high pressure discharge lamps up to 400 W

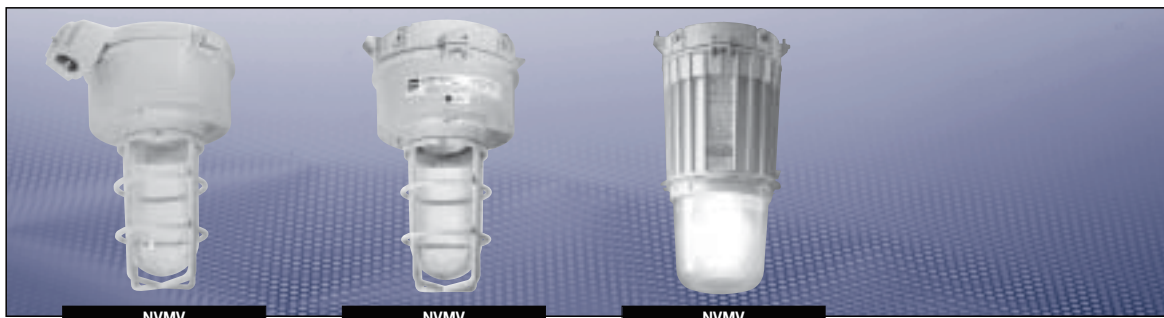
Marking to 94/9/EC	Ⓔ II 3 G EEx nR IIC T ¹⁾ Ⓔ II 3 D Ex tD A22 IP6X T ¹⁾
EC-Type Examination Certificate	applied for
Permissible ambient temperature	-20 °C up to +55 °C
Rated voltage	240 V/50 Hz (other voltage and frequencies on request)
Power factor cos	> 0.9
Connecting terminals	L, N and PE; max. 2 x 2.5 mm ²
Insulation class	I
Lamp cap	E 27 (70 - 125 W) E 40 (150 - 400 W)
Light efficiency in operation	74 % (70 - 150 W) 78 % (250 - 400 W)
Degree of protection accd. EN 60529	IP67/66
Cable glands/Gland plates)Enclosure drilling	Drilling 4 x M25 x 1.5 with blanking plug
Dimensions (L x W x H)	420 x 294 x 318 mm (70 - 150 W) 555 x 294 x 318 mm (250 - 400 W)
Weight	see ordering details
Enclosure material	light alloy with epoxy powder coating
Enclosure colour	grey
Protective cover/protective bowl	borosilicate glass

Lamp	Power	Rated luminous flux ²⁾	Temperature class -20 °C up to +55 °C	Surface temperature -20 °C up to +55 °C
High pressure mercury vapor HME	125 W	6300 lm	T3	195 °C
	250 W	13000 lm	T2	195 °C
High pressure sodium lamp HSE	70 W	5600 lm	T4	130 °C
	150 W	14000 lm	T3	195 °C
	250 W	25000 lm	T3	195 °C
	400 W	47000 lm	T3	195 °C
High pressure metal halide lamp HIE	250 W	17000 lm	T3	195 °C
	400 W	30000 lm	T2	290 °C

¹⁾ see table

²⁾ depends on used lamps

Ex-Pendant light fitting



Ordering details

Type	Mounting	HSE	HME	HIE	Weight (approx. kg)	Order No.
NVMV... (small enclosure)						
S2MC076P000	Ceiling	70 W			6.6	1 2341 000 001
S2MC156P000	Ceiling	150 W			7.0	1 2341 000 002
H2MC126P000	Ceiling		125 W		7.0	1 2341 000 003
M2MC076P000	Ceiling			70 W	6.6	1 2341 000 004
M2MC156P000	Ceiling			150 W	7.0	1 2341 000 005
S2MW076P000	Wall	70 W			6.6	1 2341 000 051
S2MW156P000	Wall	150 W			7.0	1 2341 000 052
H2MW126P000	Wall		125 W		7.0	1 2341 000 053
M2MW076P000	Wall			70 W	6.6	1 2341 000 054
M2MW156P000	Wall			150 W	7.0	1 2341 000 055
S4BJ076P000	Thread* 1 1/4", BSP	70 W			6.6	1 2341 000 101
S4BJ156P000	Thread* 1 1/4", BSP	150 W			7.0	1 2341 000 102
H4BJ126P000	Thread* 1 1/4", BSP		125 W		7.0	1 2341 000 103
M4BJ076P000	Thread* 1 1/4", BSP			70 W	6.6	1 2341 000 104
M4BJ156P000	Thread* 1 1/4", BSP			150 W	7.0	1 2341 000 105
NVMV... (large enclosure)						
S2MC256PL00	Ceiling	250 W			14.2	1 2342 000 001
S2MC406PL00	Ceiling	400 W			17.5	1 2342 000 002
H2MC256PL00	Ceiling		250 W		14.2	1 2342 000 003
M2MC256PL00	Ceiling			250 W	14.2	1 2342 000 004
M2MC406PL00	Ceiling			400 W	17.5	1 2342 000 005
S2MW256PL00	Wall	250 W			15.5	1 2342 000 051
S2MW406PL00	Wall	400 W			17.6	1 2342 000 052
H2MW256PL00	Wall		250 W		15.5	1 2342 000 053
M2MW256PL00	Wall			250 W	15.5	1 2342 000 054
M2MW406PL00	Wall			400 W	17.6	1 2342 000 055
S4BJ256PL00	Pole	250 W			14.4	1 2342 000 101
S4BJ406PL00	Pole	400 W			17.6	1 2342 000 102
H4BJ256PL00	Pole		250 W		14.4	1 2342 000 103
M4BJ256PL00	Pole			250 W	14.4	1 2342 000 104
M4BJ406PL00	Pole			400 W	17.6	1 2342 000 105

*Thread for 1 1/4" BSP pole mounting

Lamps and fixing accessories are not included

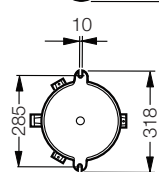
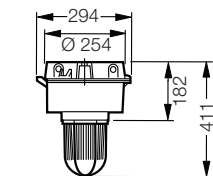
Accessories

NVMV CHAMP

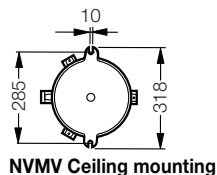
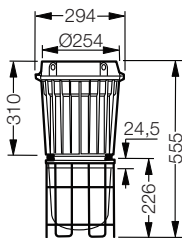
Type	Order No.
External reflector RD 70 (70 - 150 W)	3 2341 001 001
External reflector RD 47 (250 - 400 W)	3 2342 001 001



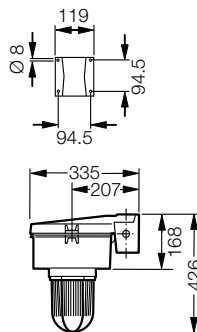
Dimensions drawing



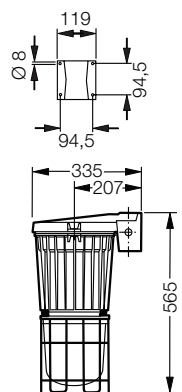
Ceiling mounting



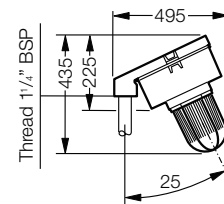
NVMV Ceiling mounting



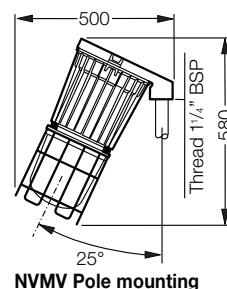
Wall mounting



NVMV Wall mounting

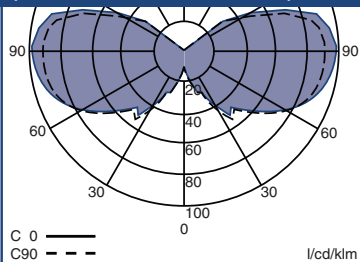


Pole mounting

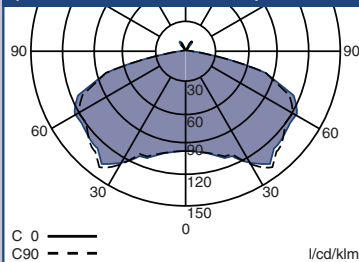


NVMV Pole mounting

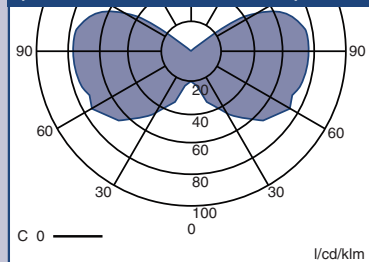
Polar curve NVMV
(without external reflector)



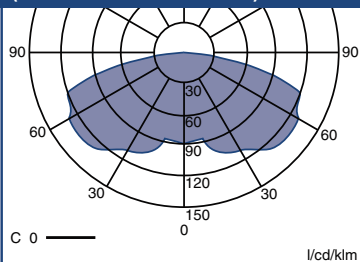
Polar curve NVMV
(with external reflector)



Polar curve NVMV
(without external reflector)



Polar curve NVMV
(with external reflector)



Dimensions in mm

E X - F L O O D L I G H T

NFMV and Voyager nR for high pressure discharge lamps Metal version for Zone 2/22

The floodlights NFMV and Voyager nR in accordance to the ATEX-Directive 94/9/EG. They have been built and tested according to the European Standard for Gas-Ex-Areas of Zone 2 classification as well as for use in Dust-Ex-Areas of Zone 22.

The light fitting series NFMV and Voyager nR for lamps with a rating of 250 W up to 400 W and have a high quality built-in reflector. The enclosure of the NFMV is made of light alloy with epoxy powder coating. The Voyager nR has a stainless steel enclosure. The transparent part consists of a temperature stable, impact resistant glass.

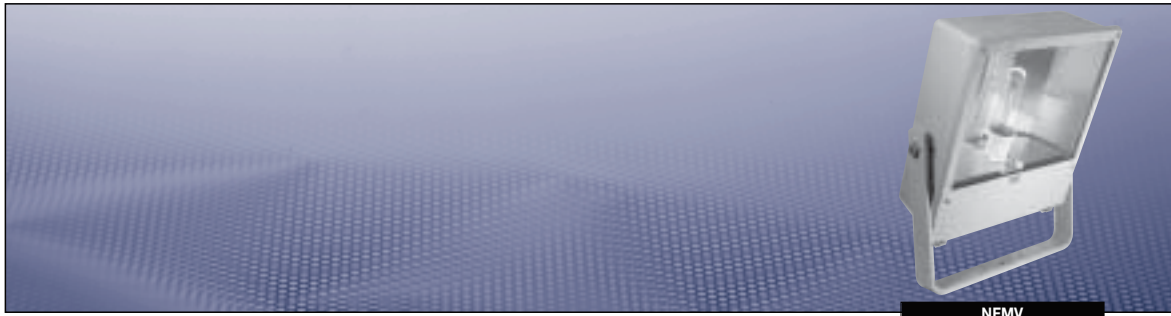
The modular architecture allows for a quick and cost-effective installation of the light fittings. Apart from the direct mounting per swivel bracket there is also a pole version available. A particularly durable sealing system for use under extreme climatic conditions brings additional reliability.

The restricted breathing version allows a high illumination combined with a high temperature classification.



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- Rotate and swivel light fitting housing, also for pole mounting
- Ideal for illumination of large areas and selective individual objects
- Degree of protection IP66
- High corrosion resistance
- Restricted breathing version
- For environmental temperatures up to +55° C



NFMV

Technical data

NFMV	
Marking to 94/9/EC	⚡ II 3 G EEx nR II T ¹⁾ ⚡ II 3 Ex tD A22 IP66 T ¹⁾
EC-Type Examination Certificate	II 3 G: PTB 00 ATEX ATEX 2214 II 3 D: applied for
Permissible ambient temperature	-20 °C to +55 °C
Rated voltage	240 V (other voltage on request)
Frequency	50 Hz (other frequencies on request)
Power factor cos	> 0.9
Connecting terminals	L, N and PE; 2 x 4 mm ²
Insulation class	I
Lamp cap	E 40 acc. IEC 60238
Light efficiency in operation	45 %
Degree of protection accd. EN 60529	IP66
Cable glands/Gland plates/Enclosure drilling	2 x M20 x 1.5; 1 plugged
Dimensions (L x W x H)	660 x 430 x 175 mm
Weight	¹⁾
Enclosure material	light alloy with epoxy powder coating
Enclosure colour	grey
Protective cover/protective bowl	borosilicate glass

¹⁾ see table

Ordering details

Type	Lamps			Rated luminous flux ²⁾	Temperature class	Max. surface temperature	Weight (approx. kg)	Order No.
	HSE	HME	HIE					
NFMV...								
HSE 150 W	150 W			14000 lm	T4 ³⁾	95 °C	15.5	NOR 000 005 180 013
HSE 250 W	250 W			25000 lm	T3 ⁴⁾	150 °C	16.9	NOR 000 005 180 014
HSE 400 W	400 W			47000 lm	T3	195 °C	18.6	NOR 000 005 180 015
HME 250 W		250 W		13000 lm	T3	155 °C	20.5	NOR 000 005 180 011
HME 400 W		400 W		32000 lm	T3	195 °C	22.0	NOR 000 005 180 012
HIE 250 W			250 W	17000 lm	T3 ⁴⁾	150 °C	16.9	NOR 000 005 180 014
HIE 400 W			400 W	30000 lm	T3	195 °C	18.6	NOR 000 005 180 015

²⁾ depends on used lamps

³⁾ Temp.-class T5 at ta max. +40 °C

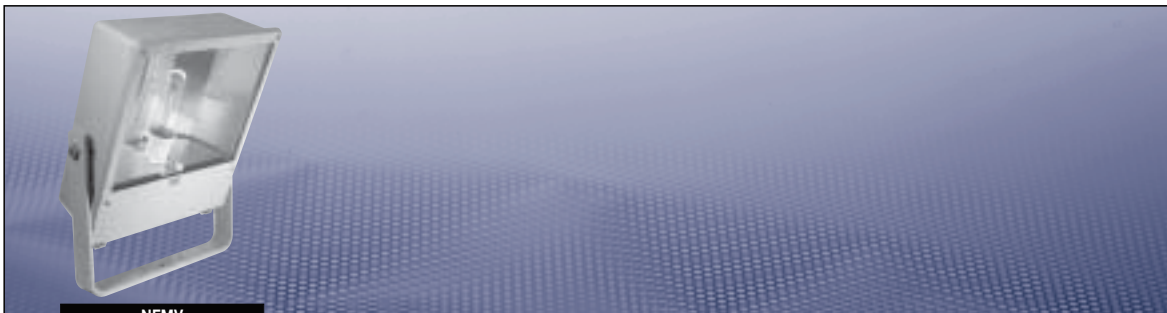
⁴⁾ Temp.-class T4 at ta max. +40 °C

Lamps and fixing accessories are not included

Accessories

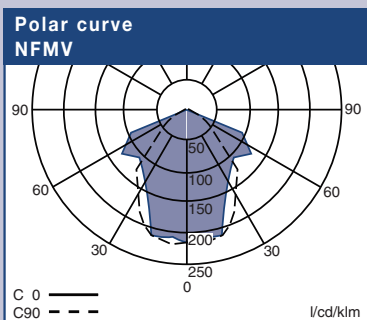
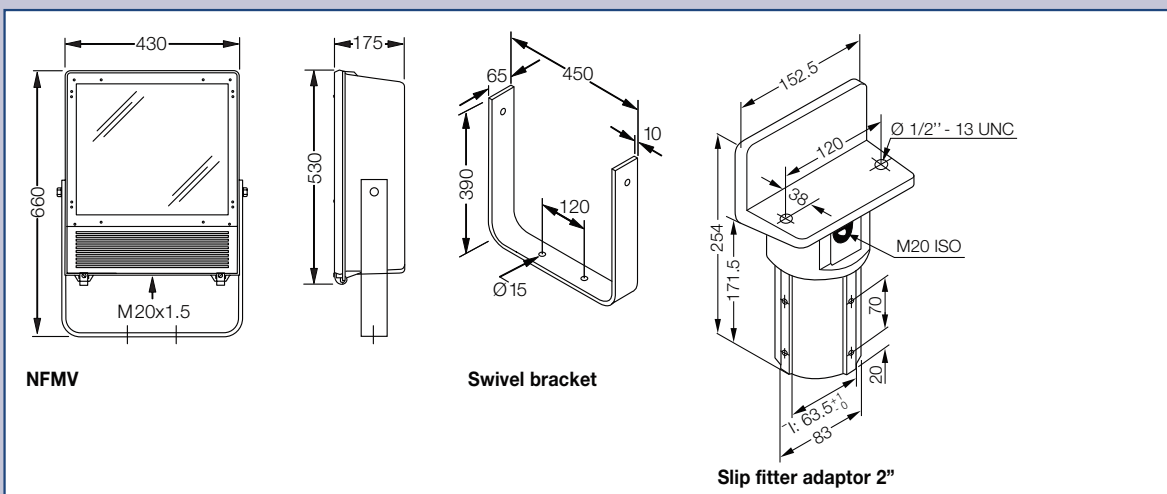
NFMV...		
Type	Qty.	Order No.
Slipfitter adapter 2" for pole mounting	1	NOR 000 005 190 022

Ex-Floodlight

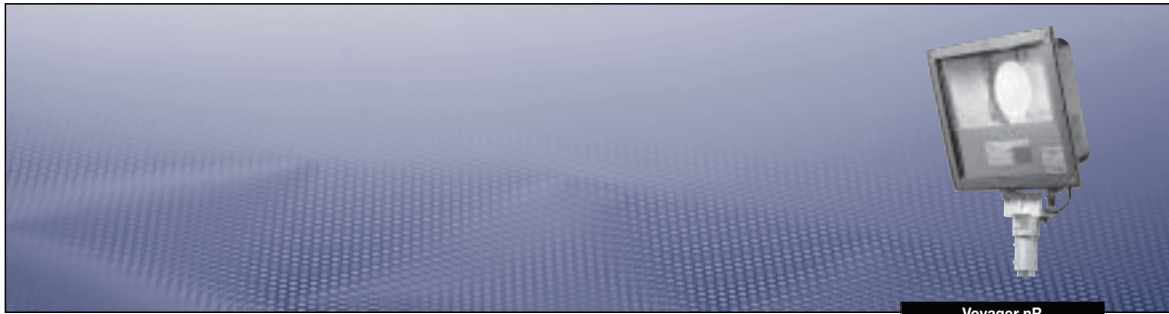


NFMV

Dimensions drawing



Dimensions in mm



Voyager nR

Technical data

Voyager nR	
Marking to 94/9/EC	⚡ II 3 G EEx nR II T3 ⚡ II 3 Ex tD A22 IP66 T ¹⁾
EC-Type Examination Certificate	applied for
Permissible ambient temperature	-20 °C to +55 °C
Rated voltage	240 V ²⁾
Frequency	60 Hz ²⁾
Power factor cos	> 0.9
Connecting terminals	L, N and PE; 2 x 2.5 mm ²
Insulation class	I
Lamp cap	E 40 acc. IEC 60238
Light efficiency in operation	68 %
Degree of protection accd. EN 60529	IP66
Cable glands/Gland plates/Enclosure drilling	2 x M20 x 1.5; 1 plugged
Dimensions (L x W x H)	536 x 592 x 195.5 mm
Weight	¹⁾
Type of mounting	mounting bracket
Enclosure material	stainless steel
Enclosure colour	natural
Protective cover/protective bowl	borosilicate glass

¹⁾ see table

²⁾ others on request

³⁾ depends on used lamps

Ordering details

Type	Lamps		Rated luminous flux ³⁾	Temperature class	Max. surface temperature	Weight (approx. kg)	Order No.
	HSE	HIE					
Voyager nR							
NSSFMVSY250	250 W		25000 lm	T4 ⁴⁾ /T3	130°C ⁴⁾ /150 °C	16.9	1 1754 001 111
NSSFMVSY400	400 W		47000 lm	T3	195 °C	18.6	1 1754 002 111
NSSFMVMY250		250 W	17000 lm	T3	195 °C	16.9	on request
NSSFMVMY400		400 W	30000 lm	T3	195 °C	18.6	on request

³⁾ depend on oused lamps

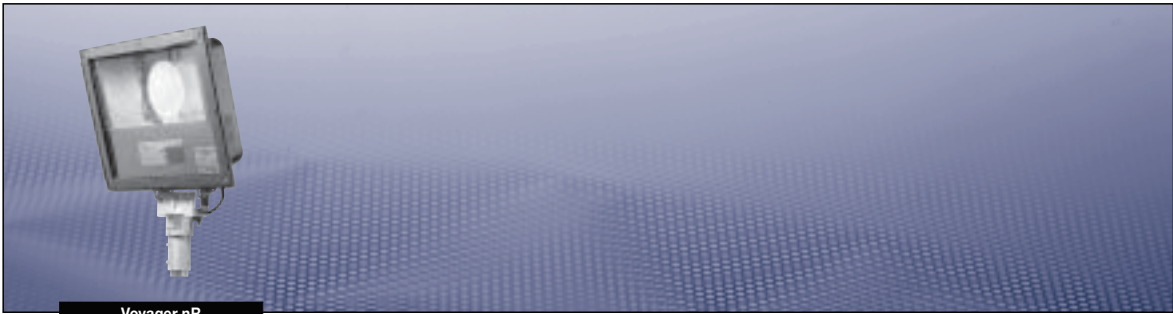
⁴⁾ at ta max. +40 °C

Lamps and fixing accessories are not included

Accessories

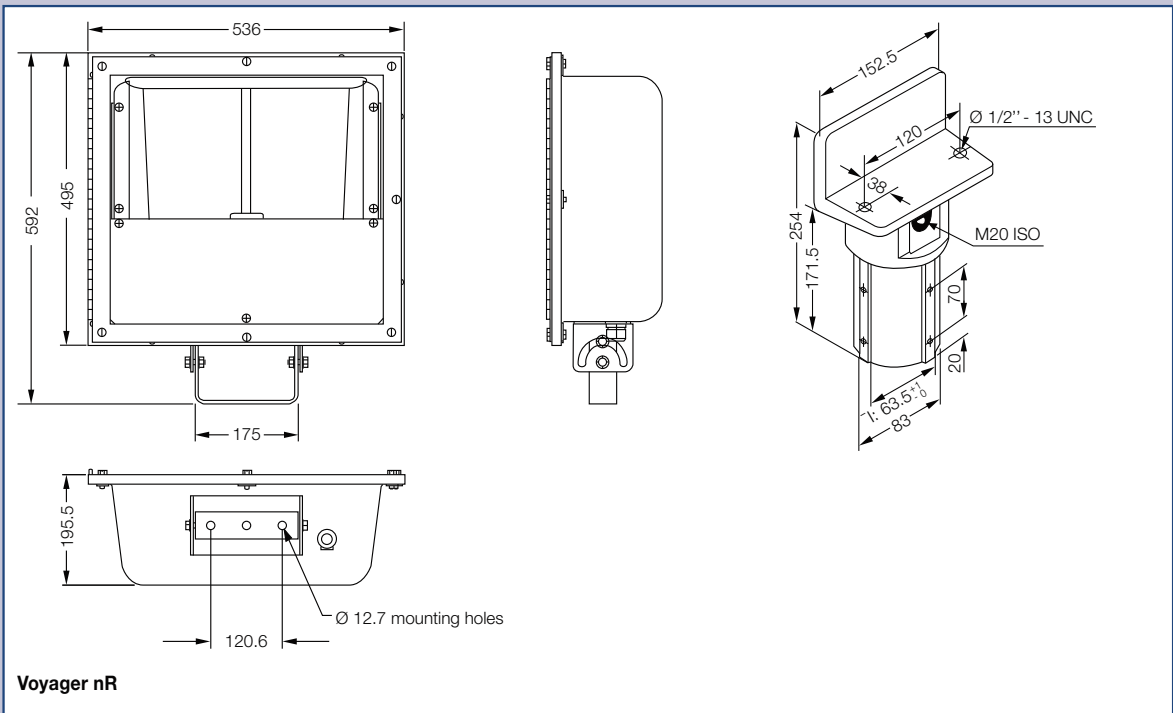
Voyager nR	
Type	Order No.
Slipfitter adapter 2"	NOR 000 005 190 022

Ex-Floodlight

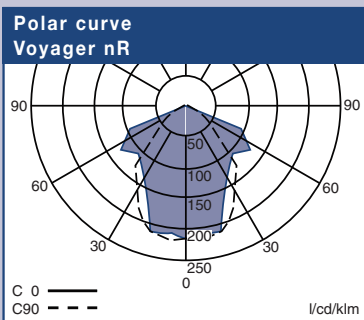


Voyager nR

Dimensions drawing | Polar curve



Voyager nR



Dimensions in mm

Fittings and Ex-Floodlights
Lamps for Ex-Pendant Light Fittings and Ex-Floodlights**Lamps for Use in Ex-Pendant Light Fittings and Floodlights**

Lamps for Ex-Pendant Light Fittings and Floodlights are normally not part of the delivery. The lamps are specified by IEC Standards and described by different Lamp Designation Systems. In Europe a standardized system was developed and introduced by the German ZVEI. This system (LBS) allows easily to name a lamp independent from the different manufacturers.

In the following table all lamps used in the Ex-pendant light fittings and floodlight are shown with the relevant short description and LBS-name.

Spare Parts

As well as the above, there is also a large amount of spare parts available for maintenance and repair work. If required, please contact us, you will find that we will be more than pleased to help you.

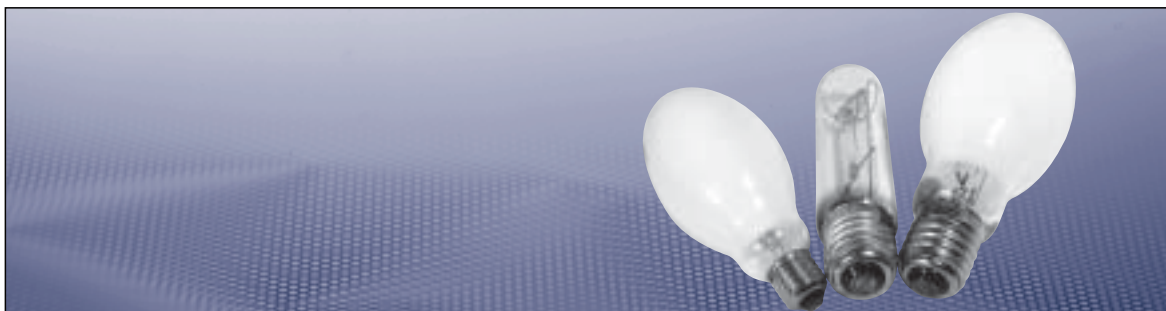
We must point your attention to the fact that repair work done on explosive-protected products must be carried out with original spare parts only! If this is not the case and third-party parts are used, the Certification and Approval for the product will be forfeited and a possible reduction of the explosion-protection may be achieved.

Repair Service

Of course Cooper Crouse-Hinds GmbH upholds its own Repair Department where customer repairs are carried out. Our qualified and schooled personnel carry out repairs and overhauling using original spare parts, quickly and efficiently. This service also includes the end quality testing needed for explosion protected products.

With this service you have an "assured safety" as do all overhauled Ex-Lamps and products by Cooper Crouse-Hinds GmbH.





Accessories

Lamps for pendant light fittings and floodlights

For fitting	Lamp type	Lamp cap	Power	Luminous flux ¹⁰⁾ approx. lm	Order No.
AB 05 Ex e	Incandescent IGA 60	E 27	60 W/100 W	710/1360	on request
AB 05 Ex d	HSE ⁵⁾	E 27	70 W	5600	on request
AB 05 nR	Incandescent IGA 60	E 27	60 W/100 W	710/1360	on request
AB 05 nR	TC-DSE 15 W	E 27	15 W	900	on request
AB 05 nR	TC-DSE 20 W	E 27	20 W	1200	on request
AB 05 nR	HSE ⁵⁾	E 27	70 W	5600	on request
AB 80	Incandescent IGA 60	E 27	60 W/100 W	710/1360	on request
AB 50/SPG 1N	Incandescent IGA 60	E 27	60 W/100 W	710/1360	on request
AB 80	TC-DSE 11 W	E 27	11 W	660	on request
AB 51	TC-DSE 15 W	E 27	15 W	900	on request
AB 51	TC-DSE 20 W	E 27	20 W	1200	on request
EVI AB 51	Incandescent IGA 65	E 27	150 W	2200	on request
EVI / AB 51	Incandescent IGA 80	E 27	200 W	3100	on request
EVI	Incandescent IGA 90	E 40	300 W	5000	on request
EVI	Incandescent IGA 110	E 40	500 W	8400	on request
AB 51	Halogene lamp IQT	E 27	75 W	1100	on request
AB 51	Halogene lamp IQT	E 27	150 W	2500	on request
AB 51	HME-SB ³⁾	E 27	100 W	1100	on request
EVI	HME-SB ³⁾	E 27	160 W	3100	on request
EVI	HME-SB ³⁾	E 40	250 W	5600	on request
EVI	HME ⁴⁾	E 27	80 W	3800	on request
EVI	HME ⁴⁾	E 27	125 W	6300	on request
EVI	HME ⁴⁾	E 40	250 W	13000	CGS 323 7990 P1010
AB 51	HSE ⁵⁾	E 27	50 W	3400	on request
EVI	HSE ⁵⁾	E 27	70 W	5600	on request
EVI	HSE ⁵⁾	E 40	150 W	14000	on request
EVI	HSE ⁵⁾	E 40	250 W	25000	CGS 323 8600 P1009
EVI	HIE ⁶⁾	E 40	250 W	17000	on request
EVM	HME ⁴⁾	E 27	125 W	6300	on request
EVM	HME ⁴⁾	E 40	250 W	13000	CGS 323 7990 P1010
EVS	HSE ⁵⁾	E 27	70 W	5600	on request
EVS	HSE ⁵⁾	E 40	150 W	14000	on request
EVS	HSE ⁵⁾	E 40	250 W	25000	CGS 323 8600 P1009
EVH	HIE ⁶⁾	E 40	250 W	17000	on request
EVQ 55	Master QL ⁷⁾⁸⁾	–	55 W	3500	on request
EVQ 85	Master QL ⁷⁾⁸⁾	–	85 W	6000	on request

³⁾ HME-SB = mixed light high pressure mercury vapour lamp

⁴⁾ HME = high pressure mercury vapour lamp

⁵⁾ HSE/HST = high pressure sodium vapour lamp

⁶⁾ HIE/HIT = High-pressure metal halide lamp

⁷⁾ Trade mark of Philips company

⁸⁾ Single components of this system as spare parts available

– Lamp QL (55 W/85 W)

– Power Coupler QL (55 W/85 W)

– HF-generator QL (55 W/85 W)

⁹⁾ QT = halogene lamp with protective bulb

¹⁰⁾ Deviations of lamp rated luminous flux possible depending to used product

Lamps



Accessories

Lamps for pendant light fittings and floodlights

For fitting	Lamp type	Lamp cap	Power	Luminous flux ¹⁰⁾ approx. lm	Order No.
FZD	HIT ⁶⁾	E 40	250 W	19000	on request
FZD	HIT ⁶⁾	E 40	400 W	35000	on request
FZD	HST ⁵⁾	E 40	250 W	27000	on request
FZD	HST ⁵⁾	E 40	400 W	48000	on request
dHLS 85	HME ⁴⁾	E 40	250 W	13000	CGS 323 7990 P1010
dHLS 85	HME ⁴⁾	E 40	400 W	22000	CGS 323 7990 P1011
dHLS 85	HSE ⁵⁾	E 40	250 W	25000	CGS 323 8600 P1009
dHLS 85	HSE ⁵⁾	E 40	400 W	47000	CGS 323 8700 P1009
dTLS 85	HIT-DE ⁶⁾	Fc2	250 W	19000	CGS 323 7990 P1009
dTLS 85	HST-DE ⁵⁾	Fc2	250 W	25000	CGS 323 8500 P1009
dTLS 85	HST-DE ⁵⁾	RX7s	70 W	6800	on request
PX	HIT ⁶⁾	E 40	150 W	14000	on request
PX	HIT ⁶⁾	E 40	250 W	20000	on request
PX	HIT ⁶⁾	E 40	400 W	35000	on request
PX	HST ⁵⁾	E 40	150 W	17000	on request
PX	HST ⁵⁾	E 40	250 W	33000	on request
PX	HST ⁵⁾	E 40	400 W	55500	on request
PX	HST ⁵⁾	E 40	600 W	90000	on request
PX	HME-SB ³⁾	E 40	500 W	14000	on request
PX	QT ⁹⁾	E 40	500 W	10000	on request
KFL	Halogene reflector lamp type Sylvania-	GZ10	230 V/50 W	680	on request
NVMV Champ 70 - 150 W	HSE ⁵⁾	E 27	70 W	5600	on request
NVMV Champ 70 - 150 W	HSE ⁵⁾	E 40	150 W	14000	on request
NVMV Champ 70 - 150 W	HME ⁴⁾	E 27	125 W	6300	on request
NVMV Champ 70 - 150 W	HIE ⁶⁾	E 27	70 W	5900	on request
NVMV Champ 70 - 150 W	HIE ⁶⁾	E 40	150 W	13000	on request
NVMV Champ 250 - 400 W	HSE ⁵⁾	E 40	250 W	25000	CGS 323 8600 P1009
NVMV Champ 250 - 400 W	HSE ⁵⁾	E 40	400 W	47000	CGS 323 8700 P1009
NVMV Champ 250 - 400 W	HME ⁴⁾	E 40	250 W	13000	CGS 323 7990 P1010
NVMV Champ 250 - 400 W	HIE ⁶⁾	E 40	250 W	17000	on request
NVMV Champ 250 - 400 W	HIE ⁶⁾	E 40	400 W	30000	on request
NFMV	HSE ⁵⁾	E 40	150 W	14000	on request
NFMV	HSE ⁵⁾	E 40	250 W	25000	CGS 323 8600 P1009
NFMV	HSE ⁵⁾	E 40	400 W	47000	CGS 323 8700 P1009
NFMV	HME ⁴⁾	E 40	250 W	13000	CGS 323 7990 P1010
NFMV	HME ⁴⁾	E 40	400 W	22000	CGS 323 7990 P1011
NFMV	HIE ⁶⁾	E 40	250 W	17000	on request
NFMV	HIE ⁶⁾	E 40	400 W	30000	on request

³⁾ HME-SB = mixed light high pressure mercury vapour lamp

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⁹⁾ QT = halogene lamp with protective bulb

¹⁰⁾ Diviations of lamp rated luminous flux possible depending to used product

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