

Pendant Light Fitting IEC

Series 6470/2



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11435E

- > Available light sources
 - high-pressure sodium lamps (HSE)
 - metal halide lamps (HIE)
 - halogen lamps (QT)
- > Versatile mounting methods
- > Enclosure made of saltwater-resistant aluminium

E2



	ATEX / IECEx					
Zone	0	1	2	20	21	22
For use in			x		x	x

Explosion Protection

Global (IECEx)	
Gas and dust	IECEx PTB 06.0007 Ex nR IIC T* Gc Ex tb IIIC T* °C Db Ex tc IIIC T* °C Dc * temperature classes and surface temperatures see selection table
Europe (ATEX)	
Gas and dust	PTB 05 ATEX 2045 (Zones 2, 22) PTB 05 ATEX 2043 (Zone 21) Ⓜ II 3 G Ex nR IIC T* Gc Ⓜ II 2 D Ex tb IIIC T* °C Db Ⓜ II 3 D Ex tc IIIC T* °C Dc * temperature classes and surface temperatures see selection table
Certifications and certificates	
Certificates	IECEx, ATEX, Kazakhstan (TR), Russia (TR), Ukraine (TR), Belarus (TR)
Ship approval	GL

WebCode 6470C

Pendant Light Fitting IEC

Series 6470/2

Selection Table

Version	Assembly	Cable glands	Lamps ¹⁾	Lamp holder	Lamp wattage	Temperature class at T _a =			Order number	Art. no.	Weight kg
						40 °C	55 °C	55 °C			
						Surface temperature at T _a =					
Pendant light fitting Series 6470/2, size 1 with compensation, without wire guard	Wall - Ceiling	2 x M20 x 1.5, 2 x M25 x 1.5	HIE	E27	100 W	T4	T4	125 °C	6470/2121-2101-100-2	237869	8.400
					150 W	T4	T3	147 °C	6470/2121-2151-100-2	237881	9.200
			HSE	E27	70 W	T4	T4	112 °C	6470/2121-3071-100-2	237857	8.300
	Pole 25°	1 1/2" BSP	HSE	E27	70 W	T4	T4	112 °C	6470/2153-3071-100-2	241134	8.600
					100 W	T4	T4	125 °C	6470/2152-2101-100-2	237871	8.600
					150 W	T4	T3	147 °C	6470/2152-2151-100-2	237883	9.400
		1 1/4" BSP	HIE	E27	100 W	T4	T4	125 °C	6470/2152-2101-100-2	237871	8.600
					150 W	T4	T3	147 °C	6470/2152-2151-100-2	237883	9.400
					70 W	T4	T4	112 °C	6470/2152-3071-100-2	237859	9.400
	Wall	2 x M20 x 1.5, 2 x M25 x 1.5	HIE	E27	100 W	T4	T4	125 °C	6470/2141-2101-100-2	237870	9.000
					150 W	T4	T3	147 °C	6470/2141-2151-100-2	237882	9.900
			HSE	E27	70 W	T4	T4	112 °C	6470/2141-3071-100-2	237858	9.000
Pendant light fitting Series 6470/2, size 2 with compensation, without wire guard	Wall - Ceiling	2 x M20 x 1.5, 2 x M25 x 1.5	HSE	E40	100 W	T4	T4	117 °C	6470/2221-3102-100-2	237875	8.700
					150 W	T4	T3	140 °C	6470/2221-3152-100-2	237887	9.600
			HID	E40	250 W	T3	T3 (HSE) -- (HIE)	167 °C (HSE) 152 °C** (HIE)	6470/2221-6252-100-2	224250	9.700
	Pole 25°	1 1/2" BSP	HSE	E40	100 W	T4	T4	117 °C	6470/2253-3102-100-2	224344	9.100
					150 W	T4	T3	140 °C	6470/2253-3152-100-2	224345	9.950
					100 W	T4	T4	117 °C	6470/2252-3102-100-2	237877	9.100
		1 1/4" BSP	HSE	E40	100 W	T4	T4	117 °C	6470/2252-3102-100-2	237877	9.100
					150 W	T4	T3	140 °C	6470/2252-3152-100-2	237889	9.100
					HID	E40	250 W	T3	T3 (HSE) -- (HIE)	167 °C (HSE) 152 °C** (HIE)	6470/2252-6252-100-2
	Wall	2 x M20 x 1.5, 2 x M25 x 1.5	HSE	E40	100 W	T4	T4	117 °C	6470/2241-3102-100-2	237876	9.400
					150 W	T4	T3	140 °C	6470/2241-3152-100-2	237888	10.300
			HID	E40	250 W	T3	T3 (HSE) -- (HIE)	167 °C (HSE) 152 °C** (HIE)	6470/2241-6252-100-2	224251	10.400
Pendant light fitting Series 6470/2, size 3 with compensation, without wire guard	Wall - Ceiling	2 x 1/2" NPT, 2 x 3/4" NPT	HID	E40	250 W	T4	T3	145 °C (HSE) 136 °C (HIE)	6470/2327-6252-100-2	224350	14.000
					400 W	T3	T3	154 °C (HSE) 162 °C (HIE)	6470/2327-6402-100-2	224351	16.700
			HID	E40	250 W	T4	T3	145 °C (HSE) 136 °C (HIE)	6470/2321-6252-100-2	224254	14.000
	2 x M20 x 1.5, 2 x M25 x 1.5	HID	E40	250 W	T4	T3	145 °C (HSE) 136 °C (HIE)	6470/2321-6252-100-2	224254	14.000	
				400 W	T3	T3	154 °C (HSE) 162 °C (HIE)	6470/2321-6402-100-2	224255	16.700	
		HID	E40	250 W	T4	T3	145 °C (HSE) 136 °C (HIE)	6470/2347-6252-100-2	224354	15.900	
	Wall	2 x 1/2" NPT, 2 x 3/4" NPT	HID	E40	250 W	T4	T3	145 °C (HSE) 136 °C (HIE)	6470/2347-6252-100-2	224354	15.900
					400 W	T3	T3	154 °C (HSE) 162 °C (HIE)	6470/2347-6402-100-2	224355	18.600
			HID	E40	250 W	T4	T3	145 °C (HSE) 136 °C (HIE)	6470/2341-6252-100-2	224257	15.900
2 x M20 x 1.5, 2 x M25 x 1.5	HID	E40	250 W	T4	T3	145 °C (HSE) 136 °C (HIE)	6470/2341-6252-100-2	224257	15.900		
			400 W	T3	T3	154 °C (HSE) 162 °C (HIE)	6470/2341-6402-100-2	224258	18.600		
<p>Notes:</p> <p>¹⁾ HIE → Metal halide lamp HSE → High-pressure sodium lamp HID → (HIE + HSE)</p> <p>** at ambient temperature T_a = 40 °C</p> <p>- The light fittings are supplied without lamps. - The light fittings are compensated.</p>											

Pendant Light Fitting IEC

Series 6470/2



Technical Data

Electrical data

Lamps	QT	IEC 60357						
	HIE	IEC 61167						
	HSE	IEC 60662						
Ballast	QT	without						
	HIE / HSE	magnetical ballast						
Rated operational voltage U_e	Lamps							
	QT	HIE/HSE						
	150 W	250 W	500 W	70 W	100 W	150 W	250 W	400 W
	230 (+/- 6%) V AC, 50 Hz	x	x	x	x	x	x	x
	240 (+/- 6%) V AC, 50 Hz				x	x	x	x
	208 (+/- 6%) V AC, 60 Hz				x		x	x
	220 (+/- 6%) V AC, 60 Hz	x	x	x	x	x	x	x
	240 (+/- 6%) V AC, 60 Hz				x	x	x	x
Current consumption	Lamp	Lamp power	Supply current in A					
	220 ... 230 V AC/DC 0, 50, 60Hz							
	QT	150 W	0.65					
	QT	250 W	1.08					
	QT	500 W	2.17					
	Compensated			Uncompensated				
Lamp	Lamp power	Power factor cos ϕ	Supply current in A	Inrush current in A	Power factor cos ϕ	Supply current in A	Inrush current in A	
230 V AC / 240 V AC, 50 Hz								
HIE / HSE	70 W	0.96	0.38	0.50	0.37	1.00	1.30	
HIE / HSE	100 W	0.90	0.56	0.80	0.41	1.20	1.70	
HIE / HSE	150 W	0.95	0.79	1.50	0.40	1.80	2.70	
HIE / HSE	250 W	0.92	1.30	2.00	0.40	3.00	4.20	
HIE	400 W	0.93	2.00	2.40	0.43	4.20	5.80	
HSE	400 W	0.91	2.10	2.50	0.43	4.45	6.00	
208 V AC, 60 Hz								
HIE / HSE	70 W	0.92	0.39	0.50	0.37	1.00	1.30	
HIE / HSE	150 W	0.94	0.80	1.50	0.42	1.80	2.70	
HIE	400 W	0.97	1,90	2.50	0.44	4.20	5.80	
HSE	400 W	0.96	2,30	2.80	0.44	4.45	6.00	
220 V AC / 240 V AC, 60 Hz								
HIE / HSE	70 W	0.95	0.36	0.50	0.37	1.00	1.30	
HIE / HSE	100 W	0.91	0.62	0.80	0.44	1.20	1.70	
HIE / HSE	150 W	0.96	0.75	1.50	0.42	1.80	2.70	
HIE / HSE	250 W	0.90	1.50	2.00	0.40	3.00	4.20	
HIE	400 W	0.98	1.80	2.40	0.44	4.20	5.80	
HSE	400 W	0.98	2.20	2.70	0.44	4.45	6.00	

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Pendant Light Fitting IEC

Series 6470/2

Technical Data

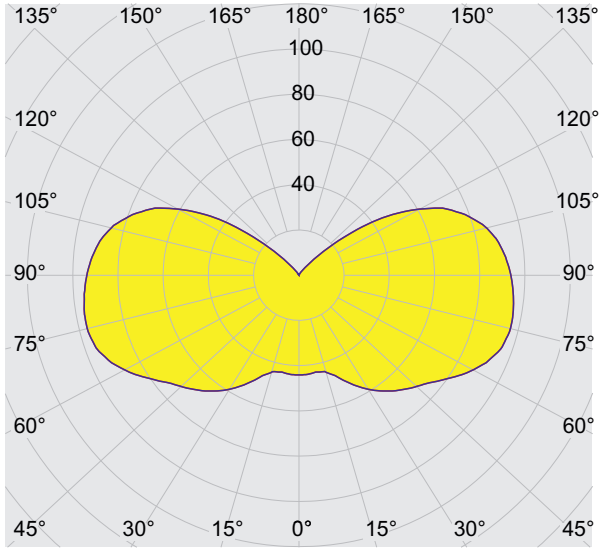
Inrush current	max. light fittings per circuit breaker with the maximum network impedance of 1 Ohm:								
					compensated [uncompensated]				
	QT			HIE/HSE					
		150 W	250 W	500 W	70 W	100 W	150 W	250 W	400 W
	B10A	11	7	4	8 [5]	7 [4]	5 [2]	3 [1]	2 [1]
	B16A	22	13	7	13 [8]	11 [6]	8 [4]	5 [2]	3 [1]
	B20A	28	17	9	16 [9]	14 [8]	10 [5]	6 [3]	4 [2]
	B25A	35	21	11	20 [12]	17 [10]	12 [6]	8 [4]	5 [2]
	C10A	11	7	4	12 [7]	10 [6]	7 [4]	5 [2]	3 [1]
	C16A	22	13	7	18 [11]	16 [9]	11 [6]	7 [3]	4 [2]
	C20A	28	17	9	23 [14]	20 [11]	14 [7]	9 [4]	5 [3]
	C25A	35	21	11	29 [17]	25 [14]	17 [9]	11 [5]	7 [4]
Energy efficiency class	EEI A2								
Ambient conditions									
Ambient temperature	-30 ... +55 °C		HSE, HIE						
	-30 ... +40 °C		250 W HIE (Size 2)						
	-50 ... +55 °C		QT						
Mechanical data									
Degree of protection	IP66 (IEC 60598)								
Protection class	I (PE-connection)								
Material									
Enclosure material	saltwater-resistant aluminium								
Glass cover	thermal shock resistant borosilicate glass								
Cover seal	silicone rubber								
Glass seal	silicone rubber								
Mounting bracket	Stainless steel								
External reflector	glass fibre reinforced polyester								
Wire guard	saltwater-resistant aluminium								
Enclosure lock	Mounting screw M8 (stainless steel)								
Mounting / Installation									
Operating position	pendant mounting or slewing angle (30° and 45°)								
Mounting	Cover	Mounting		Description					
	Universal Cover	Wall Ceiling (pendant) Ceiling (fix)		with help of mounting bracket as accessory with help of ring bolts as accessory with help of mounting bracket as accessory					
	Wall cover	Wall		direct on a wall					
	Pole 25° cover	Pole		direct on a pole					
Cable glands	Specially certified cable entries (according to Directive 94/9/EC) - risk of mechanical hazard "high" - with a minimum type of protection of IP66 must be used. The number of cable entries depends on the mounting version.								
	Standard	2x M25 and 2x M20							
	Special entry	others on request							
Connection option	Spring clamp terminal 0.5 ... 4 mm ² Strip length 10 ... 11 mm 3-pole (2x L1, 2x N, 2x PE)								
Screw-in thread for pole mounting	1 1/4" BSP, 1 1/2" BSP								
Wire guard and external reflector	can easily be mounted later using a mounting screw M6								

Pendant Light Fitting IEC Series 6470/2



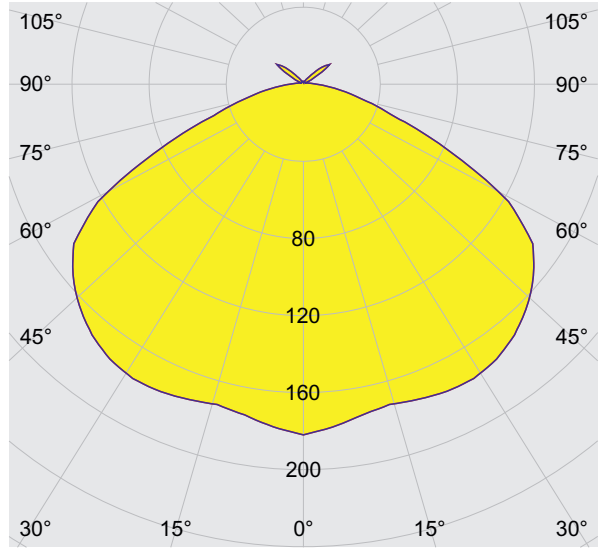
E2

Light Distribution Curve (typical)



cd/klm $\eta = 81\%$
 — C0 - C180 — C90 - C270

18906E00

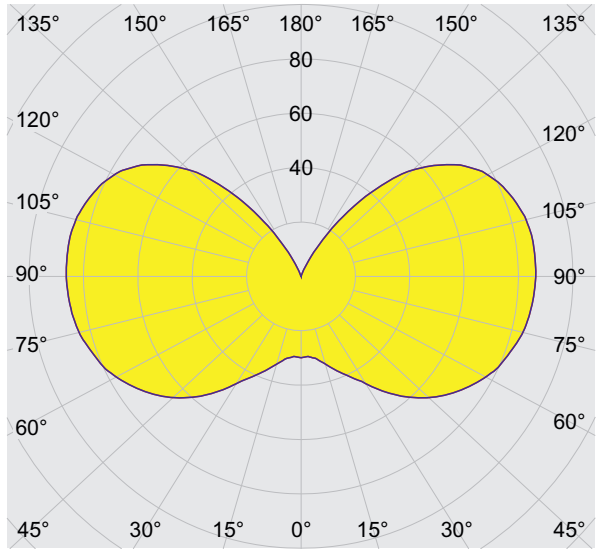


cd/klm $\eta = 67\%$
 — C0 - C180 — C90 - C270

18907E00

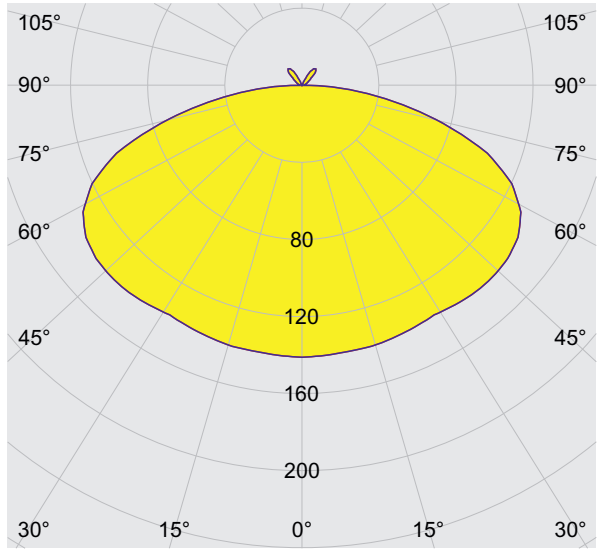
6470 Size 1 without reflector

6470 Size 1 with reflector



cd/klm $\eta = 83\%$
 — C0 - C180 — C90 - C270

18908E00



cd/klm $\eta = 69\%$
 — C0 - C180 — C90 - C270

18909E00

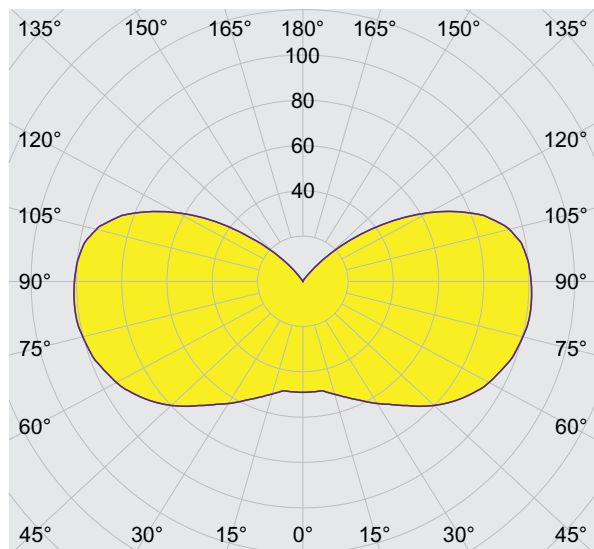
6470 Size 2 without reflector

6470 Size 2 with reflector

Pendant Light Fitting IEC

Series 6470/2

Light Distribution Curve (typical)



cd/klm

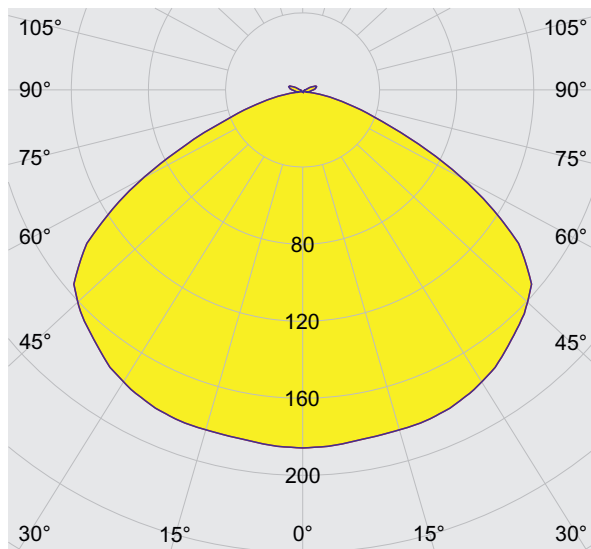
— C0 - C180

— C90 - C270

$\eta = 87\%$

18910E00

6470 Size 3 without reflector



cd/klm

— C0 - C180




— C90 - C270

$\eta = 63\%$

18911E00

6470 Size 3 with reflector

Accessories and Spare Parts




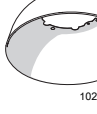

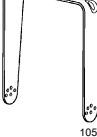
Designation	Illustration	Description				Art. no.	Weight kg
		Power	Lamp holder	Voltage	Light current		
Halogen lamps QT	 05355E00	205 W	E27	230 V	4200 lm	203469	0.100
		150 W	E27	230 V	2870 lm	207458	0.080
		500 W	E40	230 V	10250 lm	108874	0.120
Metal halide lamps HIE	 04963E00	70 W	E27	230 V	5100 lm	109307	0.073
		100 W	E27	230 V	7700 lm	109308	0.101
		150 W	E27	230 V	11500 lm	109309	0.110
		250 W	E40	230 V	20000 lm	108883	0.154
		400 W	E40	230 V	34000 lm	108885	0.242
High-pressure sodium lamps HSE	 04963E00	50 W	E27	230 V	3500 lm	109350	0.061
		70 W	E27	230 V	5600 lm	109105	0.054
		100 W	E40	230 V	9500 lm	109504	0.081
		150 W	E40	230 V	14500 lm	108900	0.285
		250 W	E40	230 V	27000 lm	108901	0.173
		400 W	E40	230 V	48000 lm	108903	0.235

Pendant Light Fitting IEC

Series 6470/2



Accessories and Spare Parts


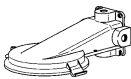


Designation	Illustration	Description	Art. no.	Weight kg
High-pressure sodium lamps HSE (TwinArc)	 04963E00	50 W E27 230 V 4000 lm	109493	0.070
		70 W E27 230 V 6500 lm	109494	0.059
		100 W E40 230 V 9500 lm	109495	0.090
		150 W E40 230 V 17000 lm	109496	0.160
		250 W E40 230 V 32000 lm	109497	0.195
		400 W E40 230 V 55000 lm	109498	0.237
Safety glass	 10572E00	temperature resistant borosilicate glass with screw-in thread		
		6470/21	123041	3.370
		6470/22	123051	4.400
		6470/23	123052	6.600
Wire guard	 10571E00	made of saltwater-resistant aluminium, with mounting parts		
		for 6470/21	123038	0.250
		for 6470/22	123039	0.300
		for 6470/23	123040	0.600
Standard reflector	 10288E00	made of glass fibre reinforced polyester, with mounting parts		
		for 6470/21 and 6470/22	123048	
		for 6470/23	123053	5.500
Reflector 30°	 06249E00	made of glass fibre reinforced polyester, with mounting parts		
		for 6470/21 and 6470/22	123043	0.600
Mounting bracket	 10570E00	made of stainless steel, with mounting parts		
		for 6470/.1 and 6470/.2	122757	1.200
		for 6470/.3	122758	1.500

E2

Pendant Light Fitting IEC

Series 6470/2

Accessories and Spare Parts

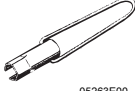

Designation	Illustration	Description	Art. no.	Weight kg	
Cover for wall and ceiling mounting	 10580E00	Ceiling mounting via taps located on the cover. A mounting bracket or ring bolts can be attached to the cover later (must be ordered as accessory).			
		with thread 2 x M20 x 1.5 and 2 x M25 x 1.5	for 6470/21 and 6470/22	248973	1.364
		with thread 2 x M20 x 1.5 and 2 x M25 x 1.5	for 6470/23	248974	1,177
		with thread 2 x 1/2" NPT and 2 x 3/4" NPT	for 6470/21 and 6470/22	248975	1.575
		with thread 2 x 1/2" NPT and 2 x 3/4" NPT	for 6470/23	248976	1.388
Cover for wall mounting	 10573E00	with thread 2 x M20 x 1.5 and 2 x M25 x 1.5	for 6470/21 and 6470/22	248977	1.409
		with thread 2 x M20 x 1.5 and 2 x M25 x 1.5	for 6470/23	248978	1.700
		with thread 2 x 1/2" NPT and 2 x 3/4" NPT	for 6470/21 and 6470/22	248979	1.620
		with thread 2 x 1/2" NPT and 2 x 3/4" NPT	for 6470/23	248980	1.911
		Cover for pole mounting 25°	 10577E00	with thread 1 1/2" BSP	for 6470/21 and 6470/22
with thread 1 1/2" BSP	for 6470/23			248982	3.076
with thread 1 1/4" BSP	for 6470/21 and 6470/22			248983	1.340
with thread 1 1/4" BSP	for 6470/23			248984	3.076
Ring bolts	 05378E00	M8, direct mounting in insert nuts, 1 pair		115736	0.112
		M10, direct mounting in insert nuts, 1 pair		118560	0.210
Cable entries	 02055E00	of moulded material, Series 8161			
		8161/7-M20-1304	50 pieces	239156	0.600
		8161/5-M25-1707	50 pieces	239157	1.000
Stopping plug	 04840E00	of moulded material, Series 8290			
		8290/3-M20	1 piece	143522	0.005
		8290/3-M20	100 pieces	143543	0.500
		8290/3-M25 x 1,5	1 pieces	143524	0.007
		8290/3-M25	100 pieces	143544	0.700

Pendant Light Fitting IEC

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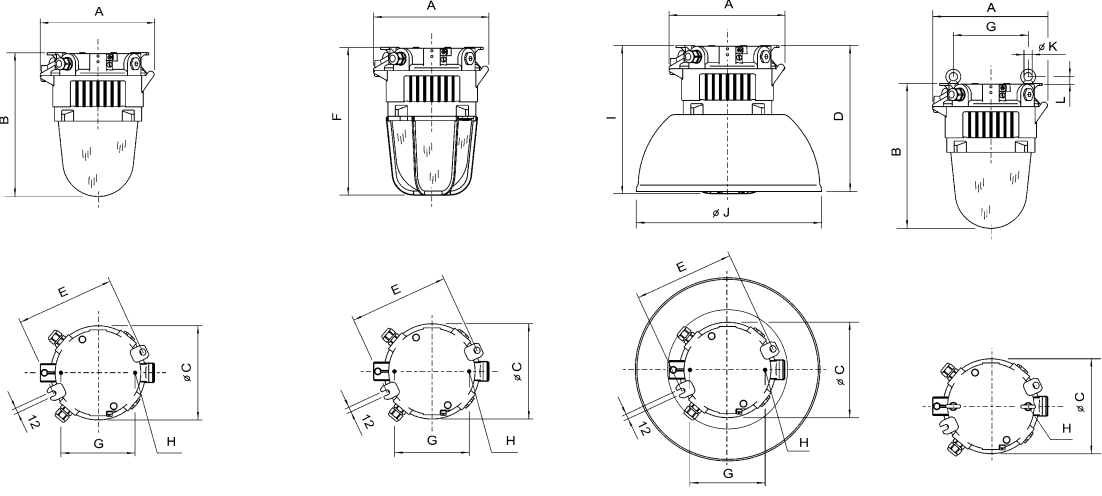


Accessories and Spare Parts

Designation	Illustration	Description	Art. no.	Weight kg
Special key		for tightening cable glands respectively cap nuts for cable glands thread size packing unit M20 x 1.5 1	114208	0.132
Handheld testing instrument for gastight enclosures		For testing of restricted breathing of gastight enclosures of type Ex nR	230434	1.334

E2

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



10574E00

Ceiling mounting without wire guard

10566E00

Ceiling mounting with wire guard

10564E00

Ceiling mounting with reflector

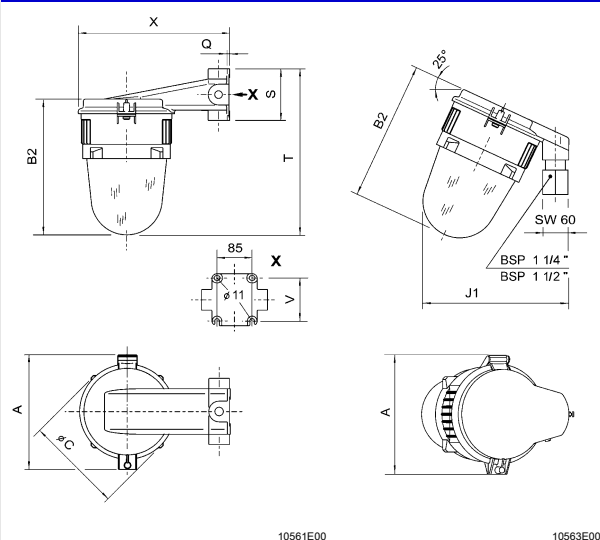
10568E00

Pendant mounting by means of ring bolts

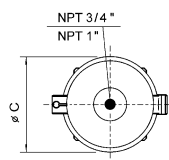
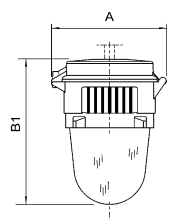
Pendant Light Fitting IEC

Series 6470/2

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Wall mounting



Tube mounting

Pole mounting 25°

	6470/21	6470/22	6470/23
A	277 [10.91]		372 [14.65]
B	352 [13.86]	414 [16.30]	514 [20.24]
B2	331	393	498
C	230 [9.06]		310 [12.20]
D	347 [13.66]		525 [20.67]
E	240 [9.45]		329 [12.95]
F	357 [14.06]	423 [16.65]	533 [20.98]
G	180 180		260
H	M 8 M 8		M 10
I	358	424	535
J	444 444		715
J1	340	367	511
K	20 20		25
L	18 18		22.5
Q	7 7		8
S	105	125	160
T	405	466	592
V	105 105		139
X	366.5 366.5		579

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.