

Pendant Light Fitting IEC
Series 6470



WWW.CABLEJOINTS.CO.UK
THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
TEL 0044 117 977 4647 FAX 0044 977 5582

STAHL

www.stahl.de



11435E00

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

E2



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

WebCode 6470A



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Selection table

Version	Lamps ¹⁾	Lamp holder	Lamp wattage	Temperature class at Ta =		T _{S max} at Ta =	Order number	Weight kg
				40 °C	55 °C	55 °C		
Pendant light fitting IEC Series 6470 size 1 up to 150 W	QT	E27	150 W	T4	T4	121 °C	6470/11...-1151-0...-1	5.900
			250 W	T4	T3	149 °C	6470/11...-1251-0...-1	5.300
	LME	E27	160 W	T4	T3	143 °C	6470/11...-1161-0...-1	5.217
	HIE	E27	70 W	T5	T4	103 °C	6470/11...-2071-...-1	6.797
			100 W	T4	T4	121 °C	6470/11...-2101-...-1	7.197
			150 W	T4	T3	140 °C	6470/11...-2151-...-1	8.115
	HSE	E27	50 W	T5	T5	98 °C	6470/11...-3051-...-1	6.297
			70 W	T4	T4	106 °C	6470/11...-3071-...-1	6.797
	HME	E27	125 W	T4	T3	142 °C	6470/11...-4121-...-1	6.463

* at maximum ambient temperature of 40 °C

Order Number Supplement

Installation	Pendant mounting by means of ring bolts	6470/1.1-...-...-...	1.164
	Ceiling mounting	6470/1.3-...-...-...	1.064
	Wall mounting	6470/1.4-...-...-...	1.937
	Pole mounting 25°	6470/1.5-...-...-...	1.144
Cable entries	4 x M25 x 1.5 (Standard) → 1 x cable entries, 3 x stopping plugs	6470/1..1-...-...-...	0.035
	4 x M20 x 1.5 → 1 x cable entries, 3 x stopping plugs	6470/1..2-...-...-...	0.024
	4 x M25 x 1.5 for through wiring → 2 x cable entries, 2 x stopping plugs	6470/1..3-...-...-...	0.045
	4 x M20 x 1.5 for through wiring → 2 x cable entries, 2 x stopping plugs	6470/1..4-...-...-...	0.031
	1 1/2" BSP for pole mounting	6470/1..5-...-...-...	
	1 1/4" BSP for pole mounting	6470/1..6-...-...-...	
Compensation	without compensation	6470/11...-...-0...-	
	with compensation	6470/11...-...-1...-	0.064
Wire guard	without wire guard	6470/11...-...-0...-	
	with wire guard	6470/11...-...-1...-	0.240
Surface	with colour (standard)	6470/1...-...-...-0...-	

Notes: ¹⁾ QT → Halogen lamp
LME → Blended lamps
HIE → Metal halide lamps
HSE → High-pressure sodium lamps
HME → Mercury lamps

- The light fittings are supplied without lamps.
- The light fittings are compensated.



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Selection table

Version	Lamps ¹⁾	Lamp holder	Lamp wattage	Temperature class at Ta =		T _{S max} at Ta =	Order number	Weight kg
				40 °C	55 °C			
Pendant light fitting IEC Series 6470 size 2 up to 250 W	LME	E40	250 W	T3	T3	170 °C	6470/12...-1252-0...-1	6.091
	HIE	E40	250 W	T3	--	145 °C *	6470/12...-2252-...-1	9.596
	HSE	E40	100 W	T5	T4	112 °C	6470/12...-3102-...-1	10.000
			150 W	T4	T4	130 °C	6470/12...-3152-...-1	9.260
			250 W	T3	--	157 °C	6470/12...-3252-...-1	9.596
	HME	E40	250 W	T3	--	172 °C *	6470/12...-4252-...-1	8.139

* at maximum ambient temperature of 40 °C

Order Number Supplement

Installation	Pendant mounting by means of ring bolts	6470/1.1-...-...-...-...	1.164
	Ceiling mounting	6470/1.3-...-...-...-...	1.064
	Wall mounting	6470/1.4-...-...-...-...	1.937
	Pole mounting 25°	6470/1.5-...-...-...-...	1.144
Cable entries	4 x M25 x 1.5 (Standard) → 1 x cable entries, 3 x stopping plugs	6470/1..1-...-...-...-...	0.035
	4 x M20 x 1.5 → 1 x cable entries, 3 x stopping plugs	6470/1..2-...-...-...-...	0.024
	4 x M25 x 1.5 for through wiring → 2 x cable entries, 2 x stopping plugs	6470/1..3-...-...-...-...	0.045
	4 x M20 x 1.5 for through wiring → 2 x cable entries, 2 x stopping plugs	6470/1..4-...-...-...-...	0.031
	1 1/2" BSP for pole mounting	6470/1..5-...-...-...-...	
	1 1/4" BSP for pole mounting	6470/1..6-...-...-...-...	
Compensation	without compensation	6470/12...-...-0...-...	
	with compensation	6470/12...-...-1...-...	0.064
Wire guard	without wire guard	6470/12...-...-0...-...	
	with wire guard	6470/12...-...-1...-...	0.280
Surface	with colour (standard)	6470/1...-...-...-0...-...	

Notes: ¹⁾ LME → Blended lamps
HIE → Metal halide lamps
HSE → High-pressure sodium lamps
HME → Mercury lamps

- The light fittings are supplied without lamps.
- The light fittings are compensated.

E2



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Selection table

Version	Lamps ¹⁾	Lamp holder	Lamp wattage	Temperature class at Ta =		T _{S max} at Ta =	Order number	Weight kg
				40 °C	55 °C	55 °C		
Pendant light fitting IEC Series 6470 size 3 up to 600 W	QT LME	E40	500 W	T4	T3	142 °C	6470/13...-1502-0...-1	10.868
				T3	T3	165 °C		
	HIE	E40	250 W	T4	T4	130 °C	6470/13...-2252-...-1	14.834
			400 W	T3	T3	155 °C	6470/13...-2402-...-1	15.545
	HSE	E40	250 W	T4	T4	132 °C	6470/13...-3252-...-1	14.834
			400 W	T4	T3	146 °C	6470/13...-3402-...-1	15.545
			600 W	T3	- -	166 °C *	6470/13...-3602-...-1	18.103
	HME	E40	250 W	T4	T3	145 °C	6470/13...-4252-...-1	13.377
			400 W	T3	- -	153 °C *	6470/13...-4402-...-1	13.708

* at maximum ambient temperature of 40 °C

Order Number Supplement

Installation	Ceiling mounting	6470/133...-...-...-...	1.600
Cable entries	4 x M25 x 1.5 (Standard) → 1 x cable entries, 3 x stopping plugs	6470/13.1-...-...-...-...	0.034
	4 x M20 x 1.5 → 1 x cable entries, 3 x stopping plugs	6470/13.2-...-...-...-...	0.024
	4 x M25 x 1.5 for through wiring → 2 x cable entries, 2 x stopping plugs	6470/13.3-...-...-...-...	0.044
	4 x M20 x 1.5 for through wiring → 2 x cable entries, 2 x stopping plugs	6470/13.4-...-...-...-...	0.032
Compensation	without compensation	6470/13...-...-...-0...-	10.650
	with compensation	6470/13...-...-...-1...-	10.650
Wire guard	without wire guard	6470/13...-...-...-0...-	10.650
	with wire guard	6470/13...-...-...-1...-	0.280
Surface	with colour (standard)	6470/13...-...-...-0...-	10.650

Notes: ¹⁾ QT → Halogen lamp
LME → Blended lamps
HIE → Metal halide lamps
HSE → High-pressure sodium lamps
HME → Mercury lamps

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- The light fittings are compensated.

Explosion protection

Global (IECEx)

Gas and dust

IECEx PTB 06.0007
Ex nR IIC T* Gc
Ex tb IIIC IP66 T* °C Db
* 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 IP66 T* °C Db
⊕ II 3 D Ex tc IIIC IP66 T* °C Dc
* temperature classes and surface temperatures see selection table

Certificates and approvals

Certificates

IECEx, ATEX, Russia (GOST-R), Kazakhstan (GOST-K), Belarus (GOST-B), Ukraine (GOST-U), Taiwan (ITRI)

Other certificates

Ship Approval (GL)



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Pendant Light Fitting II

Series 6470

E2

Technical data

Electrical data

Rated operational voltage U_e
 Rated current

230 V ($\pm 6\%$), AC, 50 Hz, others on request
 Note information on the type label

Lamps		Power	Lamp holder	I_N
Halogen lamp	QT	150 W	E27	0.65 A
		205 W	E27	0.90 A
		500 W	E40	2.10 A
Blended lamps	LME	160 W	E27	0.65 A
		250 W	E40	1.17 A
		500 W	E40	2.17 A
Metal halide lamps	HIE	70 W	E27	0.95 A
		100 W	E27	0.78 A
		150 W	E27	0.88 A
		250 W	E40	1.55 A
		400 W	E40	2.10 A
High-pressure Esodium lamps	HSE	50 W	E27	0.77 A
		70 W	E27	0.44 A
		100 W	E40	0.70 A
		110 W	E27	0.72 A
		150 W	E40	1.80 A
		250 W	E40	1.40 A
		400 W	E40	2.10 A
		600 W	E40	3.10 A
Mercury lamps	HME	125 W	E27	0.70 A
		250 W	E40	2.22 A
		400 W	E40	1.96 A

Power factor

$\cos \varphi \geq 0.9$ (compensated)

Ambient conditions

Ambient temperature

6470/11	-20 ... +40 °C	all versions
	-30 ... +55 °C	HSE, HIE
	-50 ... +55 °C	QT, LME, HME
6470/12	-20 ... +40 °C	all versions
	-30 ... +55 °C	HSE 100W, 150W
	-30 ... +40 °C	HSE 250W, HIE 250W
	-50 ... +55 °C	LME 250W
	-50 ... +40 °C	HME 250W
6470/13	-20 ... +40 °C	all versions
	-30 ... +55 °C	HSE 250W, 400W, HIE 250W, 400W
	-30 ... +40 °C	HSE 600W
	-50 ... +55 °C	QT 500W, LME 500W, HME 250W
	-50 ... +40 °C	HME 400W

Mechanical data

Degree of protection
 Protection class
 Material

IP66
 I (PE-connection)

Enclosure material
 Glass cover
 Cover seal
 Glass seal
 Mounting bracket
 External reflector
 Wire guard
 Enclosure lock

saltwater-resistant aluminium
 thermal shock resistant borosilicate glass
 silicone rubber
 silicone rubber
 Stainless steel
 powder coated galvanised sheet steel / glass fibre reinforced polyester
 saltwater-resistant aluminium
 Mounting screw M8 (stainless steel)

Mounting / installation

Operating position
 Mounting
 Cable glands

pendant mounting or slewing angle (30° and 45°)
 wall and ceiling, pole, pendant by means of ring bolts or mounting brackets
 Certified cable entries with an ingress Protection of IP66 minimum must be used (in acc. with 94/9/EC). The number of cable entries depends on the type of mounting.

Standard M25 x 1.5
 Special entry M20 x 1.5, others on request

Connection option
 Screw-in thread for pole mounting
 Wire guard and external reflector

L1 + N for 4 mm² flexible and 6 mm² solid via internal terminal block
 1 1/4" BSP, 1 1/2" BSP
 can easily be mounted later using a mounting screw M6

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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	0.132
Blended lamps LME	 04963E00	160 W	E27	230 V	3200 lm	108899	0.082
		250 W	E40	230 V	5400 lm	108361	0.220
		500 W	E40	230 V	13000 lm	108362	0.300
Metal halide lamps HIE	 04963E00	70 W	E27	230 V	5100 lm	109307	0.100
		100 W	E27	230 V	7700 lm	109308	0.420
		150 W	E27	230 V	11500 lm	109309	0.110
		250 W	E40	230 V	20000 lm	108883	0.195
		400 W	E40	230 V	34000 lm	108885	0.284
High-pressure sodium lamps HSE	 04963E00	50 W	E27	230 V	3500 lm	109350	0.075
		70 W	E27	230 V	5600 lm	109105	0.074
		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	0.200
		400 W	E40	230 V	48000 lm	108903	0.340
	 05355E00	600 W	E40	230 V	90000 lm	109310	0.220
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	0.070
		100 W	E40	230 V	9500 lm	109495	0.100
		150 W	E40	230 V	17000 lm	109496	0.200
		250 W	E40	230 V	32000 lm	109497	0.250
		400 W	E40	230 V	55000 lm	109498	0.290
Mercury lamps HME	 04963E00	125 W	E27	230 V	6200 lm	111685	0.080
		250 W	E40	230 V	12700 lm	111686	0.210
		400 W	E40	230 V	22000 lm	111687	0.400

Pendant Light Fitting IEC Series 6470

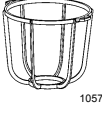
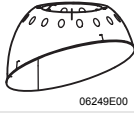
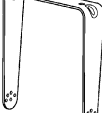
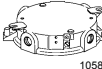
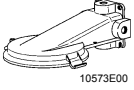


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E2

Accessories and spare parts

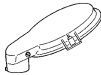
Designation	Illustration	Description	Art. no.	Weight kg
Safety glass	 10572E00	temperature resistant borosilicate glass with screw-in thread		
		for 6470/11	123041	3.370
		for 6470/12	123051	4.400
		for 6470/13	123052	6.600
Wire guard	 10571E00	made of saltwater-resistant aluminium, with mounting parts		
		for 6470/11	123038	0.250
		for 6470/12	123039	0.300
		for 6470/13	123040	0.600
Standard reflector	 10288E00	made of powder coated galvanised sheet steel, with mounting parts		
		for 6470/11 and 6470/12	123042	2.250
		made of glass fibre reinforced polyester, with mounting parts		
		for 6470/13	123053	5.500
Reflector 30°	 06249E00	made of glass fibre reinforced polyester, with mounting parts		
		for 6470/11 and 6470/12	123043	0.600
Mounting bracket	 10570E00	made of stainless steel, with mounting parts		0.000
		for 6470/11 and 6470/12	122757	1.200
		for 6470/13	122758	1.500
Cover for 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).		0.000
		with thread M20 x 1.5 for 6470/11 and for 6470/12	122750	1.264
		with thread M20 x 1.5 for 6470/13	122754	1.850
		with thread M25 x 1.5 for 6470/11 and for 6470/12	122749	1.264
		with thread M25 x 1.5 for 6470/13	122753	1.850
Cover for wall mounting	 10573E00	with thread M20 x 1.5 for 6470/11 and for 6470/12	123009	2.137
		with thread M20 x 1.5 for 6470/13	123027	3.600
		with thread M25 x 1.5 for 6470/11 and for 6470/12	123008	2.137
		with thread M25 x 1.5 for 6470/13	123026	3.600

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Accessories and spare parts

Designation	Illustration	Description	Art. no.	Weight kg
Cover for pole mounting 25°	 10577E00	with thread 1 1/2" BSP for 6470/11 and for 6470/12	123016	1.113
		with thread 1 1/2" BSP for 6470/13	123034	2.300
		with thread 1 1/4" BSP for 6470/11 and for 6470/12	123017	1.113
		with thread 1 1/4" BSP for 6470/13	123035	2.300
Ring bolts	 05378E00	M8, direct mounting in insert nuts, 1 pair	115736	0.120
		M10, direct mounting in insert nuts, 1 pair	118560	0.208
Cable entries	 05864E00	of moulded material, series 8161		
		8161/5-M20-13 1 piece	138518	0.012
		8161/5-M20-13 50 pieces	138454	0.600
		8161/5-M25-17 1 piece	138520	0.020
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
Special key	 05263E00	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	 11006E00	For testing of restricted breathing of gastight enclosures of type Ex nR	161825	0.730



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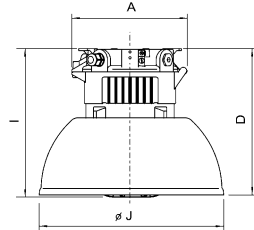
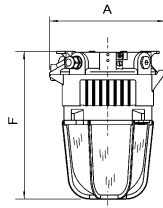
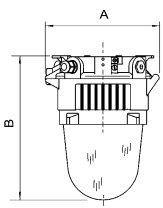
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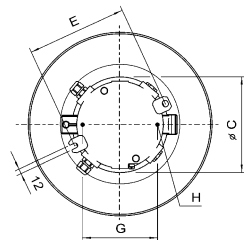
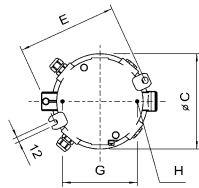
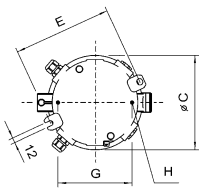
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Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



Dim. in mm	6470/11	6470/12	6470/13
A	277	277	372
B	352	414	514
C	230	230	310
D	353	353	521
E	240	240	329
F	357	423	533
G	180	180	260
H	M8	M8	M10
I	358	424	535
J	444	444	715



10574E00

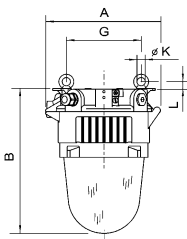
10566E00

10564E00

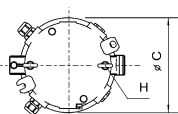
**Ceiling mounting
without wire guard**

**Ceiling mounting
with wire guard**

**Ceiling mounting
with reflector**



Dim. in mm	6470/11	6470/12	6470/13
A	277	277	372
B	352	414	514
C	230	230	310
G	180	180	260
H	M 8	M 8	M 10
K	20	20	25
L	18	18	22.5



10568E00

**Pendant mounting by
means of ring bolts**



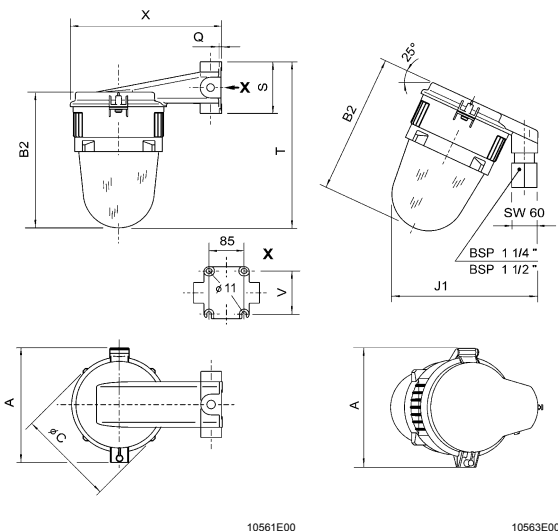
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THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
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Pendant Light Fitting IEC Series 6470



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Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



Dim. in mm	6470/11	6470/12	6470/13
A	277	277	372
B2	331	393	498
C	230	230	310
J1	340	367	511
Q	7	7	8
S	105	125	160
T	405	466	592
V	105	105	139
X	366.5	366.5	579

Wall mounting

Pole mounting 25°

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.



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