

Floodlight Series 6521/5



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THORNE & DERRICK UK
TEL 0044 191 490 1547 FAX 0044 477 5371
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E2



- > The enclosure made of stainless steel V4A, V2A or powder coated sheet steel is available
- > Broad or narrow beam reflectors or asymmetrical lamp fitting
- > Series 6521/5 explosion protected floodlight as spotlight with asymmetrical flat optics reflector



09678E00

Series 6521/5 explosion protected floodlight for use in explosive gas atmospheres of Zone 2 as well as in areas with combustible dust of Zone 21 and Zone 22.

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

WebCode 6521C



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Selection Table

Enclosure	Lamp capacity		Temperature class at Ta =					Order number	Weight kg
	Lampholder	Lamps ¹⁾	Power	40 °C	55 °C	T _s max. at Ta = 40 °C	T _s max. at Ta = 55 °C		
Sheet steel powder coated	E40	HST	250 W	T1	T1	110 °C	125 °C	6521/5312-625-123-1-230-50	24.990
			400 W	T1		134 °C		6521/5312-640-123-1-230-50	25.590
Stainless steel V2A	E40	HST	250 W	T1	T1	110 °C	125 °C	6521/5312-625-123-3-230-50	24.600
			400 W	T1		134 °C		6521/5312-640-123-3-230-50	25.200
Stainless steel V4A	E40	HST	250 W	T1	T1	110 °C	125 °C	6521/5312-625-123-4-230-50	24.600
			400 W	T1		134 °C		6521/5312-640-123-4-230-50	25.200

Order Number Supplement

Rated voltage	Specify rated voltage		
Note	1)	HST → High-pressure sodium lamps	
Only lamps of type OSRAM VIALOX-T SUPER can be used.			
- The floodlights are delivered without lamps, but with mounting brackets. Further mounting accessories must be ordered separately. - Cable gland M20 x 1.5; clamping range Ø 6 ... 13 mm (standard) Cable gland M25 x 1.5; clamping range Ø 10 ... 17 mm			

Technical data

Global (IECEX)	
Gas and dust	IECEX TUR 12.0001 Ex nAc IIC T ¹⁾ Ex tb IIIC T ¹⁾ IP66
Europe (ATEX)	
Gas	TÜV 12 ATEX 7173 ⊕ II 3G Ex nAc IIC T ¹⁾
Dust	TÜV 12 ATEX 7174 ⊕ II 2D Ex tb IIIC T ¹⁾ °C IP66
1) See selection table	
Certificates and approvals	
Certificates	IECEX, ATEX



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Technical data

Electrical data		
Rated voltage	220 V ... 240 V AC, 50 Hz	
Rated current	Size 6521/5.	High-pressure sodium vapour lamp* HST *
		Efficiency
	Size 6521/53	250 W
		400 W
Power factor cos φ	High-pressure lamps compensated cos φ > 0.9	
Ambient conditions		
Ambient temperature	-40 ... +40 °C for 400W HST -40 ... +55 °C for 250W HST	
Mechanical data		
Degree of protection	IP66 to EN 60529	
Protection class	I (with internal / external PE connection)	
Material		
Enclosure	6521/.....-1-.....	Sheet steel powder coated RAL 7032 (pebble-grey)
	6521/.....-3-.....	Stainless steel 1.4301 (V2A)
	6521/.....-4-.....	Stainless steel 1.4404 (V4A)
Window	Safety glass; resistant to thermal shocks	
Seal	Silicone	
Reflector	Aluminium, anodised	
Enclosure lock	Allen screws, M6, stainless steel Hinged enclosure cover	
Mounting / installation		
Operating position	Horizontal lamp axis	
Cable entry		
Standard	1 x M20 x 1.5 cable gland, clamping area Ø 6 ... 13 mm 1 x M20 x 1.5 stopping plug 1 x M20 x 1.5 cable entry (with blind plugs)	
Special	specific customer order possible	
Connection option	L1 + N + PE, up to 2.5 mm² solid and finely stranded Cage clamp terminals, 2 clamping units	
Mounting	U-shaped holding bracket made of stainless steel, continuously swivelable around the rotary axis of the flood lights.	

E2



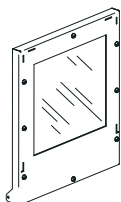
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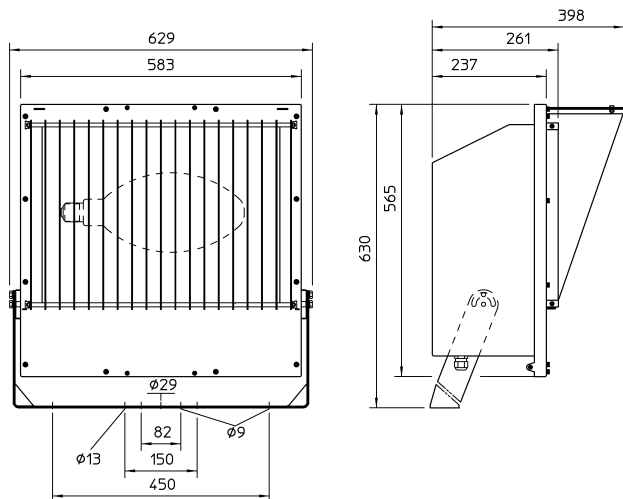
Accessories and Spare Parts

Designation	Figure	Description				Art. no.	Weight kg
High-pressure sodium lamps HST	 05355E00	Power	Lamp-holder	Voltage	Lighting current		
		250 W	E40	230 V	33200 lm	109131	0.213
		400 W	E40	230 V	56500 lm	109133	0.210
Light visor	 09785E00	Stainless steel; attaches to front cover for 6521/.3				123501	2.460
Baffle screen	 09786E00	Stainless steel; attaches to front cover for 6521/.3				123508	3.390
Mounting base (rotatable)	 09787E00	Stainless steel for all sizes				123495	3.810
Pole mounting attachment	 09788E00	For installation on end of pole (stainless steel)					
		Ø 60 mm				123493	4.430
		Ø 76 mm				123497	5.260
Cover with window	 15083E00	Cover with glass for replacement					
		for 6521/.3 Stainless steel 1.4404 (V4A)				207486	6.500
		for 6521/.3 Stainless steel 1.4301 (V2A)				209188	6.500
Cable gland	 09727E00	Brass, nickel-plated with O-ring					
		M20				109582	0.040
Stopping plug	 09726E00	Brass, nickel-plated with O-ring					
		M20				106132	0.015
		M25				106133	0.024



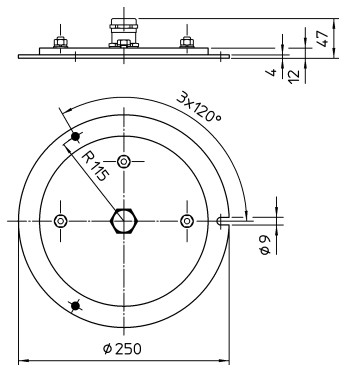
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Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



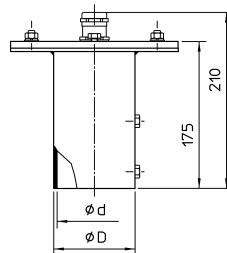
- 1) Shown with baffle screen and light visor, both parts are accessories and are not included in the standard scope of delivery

Size 3, 6521/3 1)



Mounting base (rotatable)

Accessories



Pole mounting attachment

D	d
97	89
89	76
75	60

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.