

ATX™ HLD Series Handlamps

Flameproof. Incandescent, Halogen



THORNE &
DERRICK
INTERNATIONAL

Thorne & Derrick
+44 (0) 191 410 4292
www.heatingandprocess.com

ATEX:
Zone 1 and 2 - 21 and 22
II 2 GD
IP66

Applications

- To provide maintenance staff with task specific portable lighting in Zone 1 hazardous locations.
- Ideal for persons requiring task specific portable lighting in refineries, oil and gas process and chemical plants.

Features

- To be supplied with SELV (Service Extra Low Voltage) 24 Vac or 30 Vdc.
- 75 W maximum for incandescent lamp.
- 70 W maximum for halogen lamp.
- E27 lamp holder for incandescent lamp (not supplied).
- PK22S lamp holder for H3 lamp (supplied).
- Connection via two terminals — 1 x 2.5 mm² (0.002 x 0.004 in²).
- One M20 threaded entry.
- Protective guard.
- Fitted with suspension hook.

Standard Materials

- Body and bezel: gray painted aluminum alloy
- Lamp glass: sealed borosilicate glass
- Protective guard: white zinc plated steel

ATEX Certifications and Compliances

- Certification Type: BLd
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: II 2 G
 - Type of Protection: Ex d IIC
 - Temperature Class: T3 to T5 [See *T Rating (Gas) and Surface Temperature (Dust) Table*]
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T110 °C to T138 °C (T230 °F to T280 °F); [See *T Rating (Gas) and Surface Temperature (Dust) Table*]

- Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
- CE Declaration of Conformity: 50240
- ATEX Certificate: LCIE 02 ATEX 6164
- Index of Protection according EN/IEC 60529: IP66
- Internal Volume: < 2 dm³ (122 in³) - 2 liters



T Rating (Gas) and Surface Temperature (Dust) Table

Type	Ambient T°	Gas				Dust Surface Temperature
		Lamp glass facing up		Lamp glass facing down		
		Ta = +40 °C (+104 °F)	Ta = +55 °C (+131 °F)	Ta = +40 °C (+104 °F)	Ta = +55 °C (+131 °F)	
40 W Incandescent	T Rating	T5	T4	T5	T4	+110 °C (+230 °F)
	Cable T°	+56 °C (+133 °F)	+71 °C (+160 °F)	+66 °C (+151 °F)	+81 °C (+178 °F)	N.A.
60 W Incandescent	T Rating	T4	T4	T4	T4	+130 °C (+266 °F)
	Cable T°	+61 °C (+142 °F)	+76 °C (+169 °F)	+73 °C (+163 °F)	+88 °C (+190 °F)	N.A.
75 W Incandescent	T Rating	T4	T3	T4	T4	+138 °C (+280 °F)
	Cable T°	+67 °C (+153 °F)	+82 °C (+180 °F)	+79 °C (+174 °F)	+94 °C (+201 °F)	N.A.
55 W Halogen	T Rating	T4	T4	T4	T4	+122 °C (+252 °F)
	Cable T°	+67 °C (+153 °F)	+82 °C (+180 °F)	+79 °C (+174 °F)	+94 °C (+201 °F)	N.A.
70 W Halogen	T Rating	T4	T4	T4	T4	+122 °C (+252 °F)
	Cable T°	+67 °C (+153 °F)	+82 °C (+180 °F)	+79 °C (+174 °F)	+94 °C (+201 °F)	N.A.

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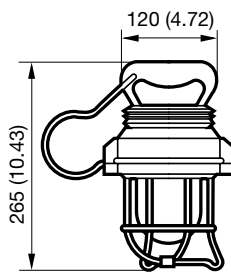
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Lamp Type, Wattage and Voltage	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
75 W Maximum for Incandescent Lamp	2.8 (6.17)	13 (793.3)	HLD7502B
55 W Halogen 12 Vac/Vdc ^①	2.8 (6.17)	13 (793.3)	HLD5501B
70 W Halogen 24 Vac/Vdc ^①	2.8 (6.17)	13 (793.3)	HLD7002B

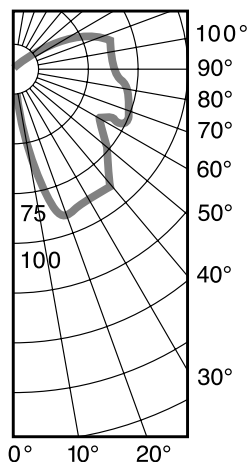
Dimensions in Millimeters (Inches)



Photometric Data

Polar curves for a 1000 lm output, according to NF C 71-120
Luminaire symbol according to NF C 71-121

Degrees	Candelas
0	23
5	37
10	51
15	68
20	83
25	82
30	82
35	82
40	82
45	77
50	72
60	61
70	73



^① Lamp supplied.