

# HLD Series Handlamps

## Flameproof. Incandescent, Halogen

Zone 1 and 2 - 21 and 22  
Gas (G) and Dust (D)

### 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 mm<sup>2</sup>.
- 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

### Certifications and Compliances

#### ◆ATEX Certification

- **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 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 [See Table]

- Ambient Temperature: -20 °C to +55 °C
- CE Declaration of Conformity: 50240
- ATEX Certificate: LCIE 02 ATEX 6164
- Index of Protection according EN/IEC 60529: IP66
- Internal Volume: < 2 dm<sup>3</sup> - 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	Ta = +55 °C	Ta = +40 °C	Ta = +55 °C	
40 W Incandescent	T Rating	T5	T4	T5	T4	+110 °C
	Cable T°	+56 °C	+71 °C	+66 °C	+81 °C	N.A.
60 W Incandescent	T Rating	T4	T4	T4	T4	+130 °C
	Cable T°	+61 °C	+76 °C	+73 °C	+88 °C	N.A.
75 W Incandescent	T Rating	T4	T3	T4	T4	+138 °C
	Cable T°	+67 °C	+82 °C	+79 °C	+94 °C	N.A.
55 W Halogen	T Rating	T4	T4	T4	T4	+122 °C
	Cable T°	+67 °C	+82 °C	+79 °C	+94 °C	N.A.
70 W Halogen	T Rating	T4	T4	T4	T4	+122 °C
	Cable T°	+67 °C	+82 °C	+79 °C	+94 °C	N.A.

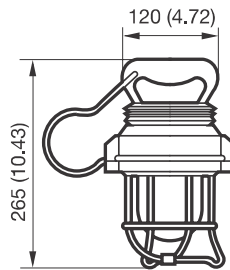
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Lamp Type, Wattage and Voltage	Weight kg	Volume dm <sup>3</sup>	Catalog Number
75 W Maximum for Incandescent Lamp	2.8	13	HLD7502B
55 W Halogen 12 Vac/Vdc <sup>①</sup>	2.8	13	HLD5501B
70 W Halogen 24 Vac/Vdc <sup>①</sup>	2.8	13	HLD7002B

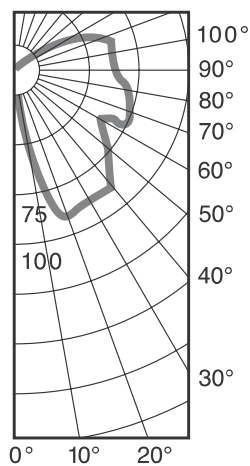
### Dimensions in Millimeters (Inches)



### 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



<sup>①</sup> Lamp supplied.

Shaded catalog numbers are normally stocked items. All other items are made to order.