HBD Series Bulkhead Luminaires

Flameproof, Incandescent, Compact Fluorescent, Mixed

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

Applications

- Suitable for use in:
 - Stairways
 - Small areas
 - Emergency exit

Features

- HBDR
 - Lamps (not supplied)
 - Incandescent 200 W maximum
 - Compact Fluorescent 23 W maximum
 - Mixed 160 W maximum
 - Threaded flameproof joint.
 - Operates on ceiling and wall.
- HBDO
 - Incandescent 60 W to 100 W maximum
 - Compact fluorescent 15 W maximum
 - Operates in any position.
 - For incandescent 60 W and 100 W a high temperature cable 106 °C is required.
- · Lamps are not supplied.
- E27 lampholder.
- Fixing by two integrated brackets.
- Connection to lampholder via two terminals 2.5 mm².
- Internal earth two terminals 2.5 mm²
- External earth one 4 mm².
- 3 x M20 threaded entries in "T" formation.
- Supplied with two blanking plugs M20.
- Supplied with Protective Guard

Standard Materials

- · Body and bezel: gray painted aluminum
- Glass: sealed toughened lamp glass
- Protective guard: zinc plated steel

Certifications and Compliances

♦ATEX Certification

- HBRD Certification Type HBRd
 - Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: 🗟 II 2 G
 - Type of Protection: Ex d IIC
 - Temperature Class: See Table on following page
 - Dust: Zones 21 and 22
 - Conforming to ATEX 94/9/CE: 🗟 II 2 D
 - Type of Protection: Ex tD A21
 - Ambient Temperature: -40 °C to +55 °C
 - CE Declaration of Conformity: 50242
 - ATEX Certificate: LCIE 02 ATEX 6163 - Index of Protection according EN/IEC 60529: IP66

 - Impact Resistance (shock): IK08 Internal Volume: > 2 dm³ -2 liters

HBDO - Certification Type HBOd

- Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: 🗟 II 2 G
 - Type of Protection: Ex d IIB
 - Temperature Class: See Table on following page
- Dust: Zones 21 and 22
- Conforming to ATEX 94/9/CE: W II 2 D
- Type of Protection: Ex tD A21
- Ambient Temperature: -20 °C to + 40 °C



HBDR Round Bulkhead (supplied with Protective Guard)



HBDO Oval Bulkhead (supplied with Protective Guard)

- CE Declaration of Conformity: 50234
- ATEX Certificate: LCIE 02 ATEX 6162
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance (shock): IK08
- Internal Volume: > 2 dm3 -2 liters

♦ EURASEC Certification

- EURASEC N° TC RU C-FR. ГБ05.B.00912

♦ Others Certification

- HBDO Certification Type HBOd
 - INMETRO Certificate: BVC11.0597 10

① Inmetro certification available on special request only. Contact your local sales for more information

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Weight kg	Volume dm³	Catalog Number
7.5	23.4	HBDR

Spare Parts

	Catalog Number
Protective Guard	HBDRPGZ

T Rating for Gas ①

					Operati:	ng Positions		
La	mp Type and Wattage	Ambient		Ceiling			Wall	
Wattage	Туре	Temperature	+40° C	+50° C	+55 °C	+40° C	+50° C	+55 °C
8	Compact Fluorescent	T Rating	T6	T6	T6	T6	T6	T6
15	Compact Fluorescent	T Rating	T6	T6	T6	T6	T6	T6
23	Compact Fluorescent	T Rating	T6	T6	T6	T5	T5	T4
100	Incandescent	T Rating	T5	T4	T4	T5	T4	T4
		T Rating	T4	T4	T4	T4	T4	T4
200	Incandescent	T° at cable entry	_	+84° C	+89° C	_	+84° C	+89° C
100	Mixed	T Rating	T4	T4	T4	T4	T4	T4
100	Missaal	T Rating	T3	T3	T3	Т3	T3	T3
180	Mixed	T° at cable entry	_	+87 C	+92° C	_	+87 C	+92° C

Surface Temperature for Dust ①

			(Operating Positions	
La	mp Type and Wattage	Ceil	ing		Wall
Wattage	Туре	Surface T° for Ta = +55 °C	T° at Cable Entry Ta= +55 °C	Surface T° for Ta= +55 °C	T° at Cable Entry Ta= +55 °C
8	Compact Fluorescent	+60 °C	_	+70 °C	-
15	Compact Fluorescent	+64 °C	-	+76 °C	-
23	Compact Fluorescent	+69 °C	-	+96 °C	-
100	Incandescent	+105 °C	_	+105 °C	-
200	Incandescent	+130 °C	+89 °C	+130 °C	+89 °C
100	Mixed	+130 °C	_	+130 °C	-
160	Mixed	+149 °C	+92 °C	+149 °C	+92 °C

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



 $^{^{\}circ}$ No need for high temperature cable for cable entry temperature less than +80 $^{\circ}$ C .

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Weight kg	Volume dm³	Catalog Number
3	9	НВОО

Spare Parts

	Catalog Number
Protective Guard	HBDOPGZ
Terminal block For through wiring 2 \times 2.5 mm 2 with high temperature sleeve	094784

T Rating for Gas ①

Lamp Ty	ype and Wattage		
Wattage	Туре	Temperature Class for Ta = +40 °C	T° at Cable Input for Ta = $+40$ °C
7	Compact Fluorescent	T6	——————————————————————————————————————
11	Compact Fluorescent	Т6	_
15	Compact Fluorescent	Т6	_
60	Incandescent	T4	+106 °C
100	Incandescent	T4	+106 °C

T Rating for Dust ①

Lamp	Type and Wattage	
Wattage	Туре	Temperature Class for Ta = +40 °C
7	Compact Fluorescent	+76 °C
11	Compact Fluorescent	+76 °C
15	Compact Fluorescent	+76 °C
60	Incandescent	+119 °C
100	Incandescent	+119 °C

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



① No need for high temperature cable for cable entry temperature less than +80 °C

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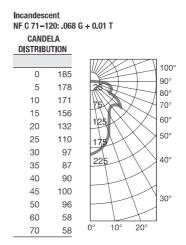
Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

HBDR Series Bulkhead Luminaires — Incandescent, Compact Fluorescent, Mixed

Dimensions in Millimeters (Inches)

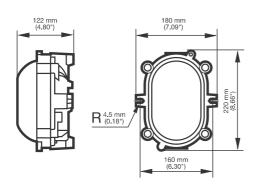
With Out Guard 192 mm (7.56°) With Out Guard 170 mm (6.69°) With Out Guard 170 mm (6.69°)

Photometric Data ①

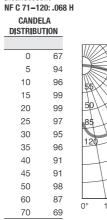


HBDO Series Bulkhead Luminaires — Incandescent, Compact Fluorescent

Dimensions in Millimeters (Inches)



Photometric Data $\ \ \ \ \$



Incandescent

① Polar curves for a 1000 lm output according to NF C 71-120. Luminaire symbol according to NF C 71-121.

^{100°} 90° 80° 70° 60° 40° 30° 0° 10° 20°