ISD-L15-OFP-OP RETROREFLECTIVE LIGHT BARRIER

Zones 1, 2, 21, 22

ATEX INSTRUMENTATION   **ZONES 1, 2 (gas) & 21, 22 (dust)**

The ISD-L15-OFP-OP retro-reflective light barriers integrate the transmitter and receiver within a single housing, ensuring easy installation and precise alignment. The selection of the appropriate light source depends on the specific application requirements. Depending on the model, the sensors operate with either highly visible red light or a highly precise laser beam, which is particularly suitable for the reliable detection of small objects.

EU-Type Examination Certificate

ITEM REFERENCES

Designation:	Material:	Dimensions:		Item No.:
ISD-L15-OFP-OP A18013640	Brass, nickel plated			9D0301
Triple mirror A90014737	82x8,5mm with injected brass screw			9D0301A

TECHNICAL SPECIFICATIONS

Marking:	⚠ II 2(1)G Ex db [op is Ga] IIC T6 Gb ⚠ II 2(1)D Ex tb [op is Da] IIIC T100°C Db IP67
Certificate:	EU-Type Examination Certificate
Housing:	M30 / brass Ms 58, nickel plated
Operating temperature:	-20°C to +50°C
Storage temperature range:	-20°C to +70°C
Ingress protection:	IP67
Relative humidity:	15% ... 90%, noncondensing
Vibration and shock resistance:	Vibration: 30g over 20Hz to 2kHz. Shock: 100g for 3ms
Response time:	5ms
Power up delay time:	500ms
Light source:	Laser, visible red, 650nm, class 2, Po <1mW
Beam divergence (at a distance of 2m):	< 0.2°
Maximum radiant intensity:	<=5mW/mm^2
Maximum radiant power:	< 15mW
Supply voltage:	24VDC +-10%
Absolute maximum input voltage U_m	30VDC
Maximum current consumption:	60mA
Maximum power dissipation:	1.6W
Output:	1 x Push-Pull, short circuit protected, maximum 100mA
Utilization category:	DC-13, according to EN 60947-5-1
Pollution degree:	4, according to EN 60664-1:2007
Device designation:	R3A30CS1, according to EN 60947-5-2
Connection cable:	3 + PE x 0,5mm^2, TPU, oil resistent, shielded, leads numbering marked, length: 3m
Accessories included:	2 nuts M30
Function and display:	
Function:	

Function:

	Cable	Socket
24VDC	1	1
0V	2	3
Output	3	4
Disable input (only -DI)	4	2
PE	yel-gm	5
Cable shield	white	