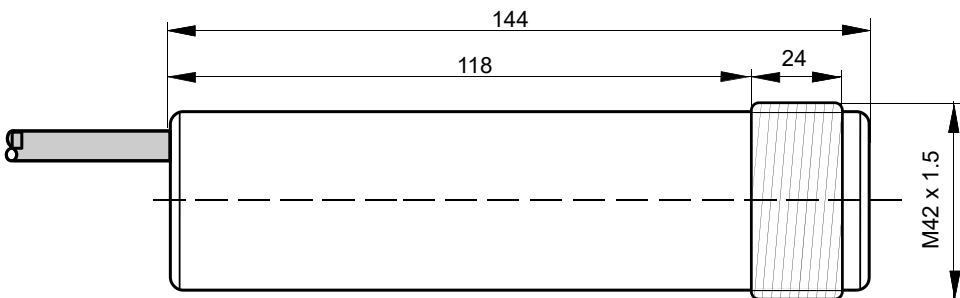


Continuous lightsource type: LQG-Z2D-BMD-OP
Semiconductor light source with a long service life.



Type	LQG-Z2D-BMD-OP											
Technical Data												
Gas Ex protection designation	II 2(1)G Ex db [op is Ga] IIC T4 Gb											
Dust Ex protection designation	II 2(1)D Ex tb [op is Da] IIIC T135°C Db											
For use in Ex Zones	Zones (0), 1, 2, (20), 21, 22											
Optical aperture angle	FWHM +- 40°											
Light Source Color	daylight white											
Color temperature	5500K (4500K bis 8000K)											
Max. Luminous Flux ϕ_v	285 lm											
Risk Group according EN62471	0											
Supply voltage, Ue	+24VDC +-10%											
Absolute maximum supply voltage, Um	30VDC											
Current consumption	250 mA											
Maximum power consumption	6W@24V											
Housing	M42, material: stainless steel 1.4404											
Enclosure rating	IP67											
Ambient working temperature range, T _{amb}	-10°C up to +50°C											
Storage temperature range	-20°C up to +70°C											
Connection cable	3 + PE x 0.5mm ² , TPU, shielded, halogen free, leads numbering marked, for drag chaining, length: 10m											
Accessories	Included	Optional										
	• 2 x Nuts M42											
ATEX related markings	CE 1258 Typ: LQG-Z2D-BMD-OP Gas: Ⓜ II 2(1)G Ex db [op is Ga] IIC T4 Gb ATEX: IECEX: Tamb: Manufacturing date:	Manufacturer with Address Electrical data according table Dust: Ⓜ II 2(1)D Ex tb [op is Da] IIIC T135°C Db SEV 19 ATEX 0307 X SEV 19.0034X -10°C up to +50°C Number 5 to 8 of the Serial Number (Year / CW)										
Wiring and Connection	<table border="1"> <tr> <td>+24VDC</td> <td>1</td> </tr> <tr> <td>0V</td> <td>2</td> </tr> <tr> <td>DI</td> <td>3</td> </tr> <tr> <td>PE</td> <td>yellow-green</td> </tr> <tr> <td>Shield</td> <td>white</td> </tr> </table>		+24VDC	1	0V	2	DI	3	PE	yellow-green	Shield	white
+24VDC	1											
0V	2											
DI	3											
PE	yellow-green											
Shield	white											
Dimensions												

LQG-Z2D-BMD-OP_e4/2022-07-12/MP

Operating Manual / EC/EU-declaration of conformity

ATEX mounting prescriptions

The valid rules and equipment regulations regarding explosion protection must be strictly observed (EN 60079-14). The maximum permissible connection values must not be exceeded. Equipotential bonding must exist in the entire area of the installation of the light source. The PE connection is firmly connected to the housing. The cable end must be placed inside the Ex area in certified Ex boxes or outside the Ex area. The shield must be connected to PE. The cables must be laid or protected in such a way that they cannot be damaged.

Type LQG-Z2D-BMD-OP:

The permanent light source of type LQG-Z2D-BMD-OP may be installed in the Ex zones 1, 2, 21, 22. The light may enter the zones (0), (20).

Function

The LQx series light sources are used for selective lighting even in potentially explosive environments. They have a high life expectancy.

Maintenance

The semiconductor light sources are maintenance-free. The optical light passages must be kept clean and free of grease.

Safety instructions according to EN62471

Caution: Do not stare into the radiation of the light source. Avoid exposure of the eyes. According to IEC/EN62471, the light source type LQG-Z2D-BMD-OP is classified in the risk group 0. The use of eye protection is recommended during installation and commissioning.

General hazard warnings

CAUTION! Do not look into the light source, a direct look into the light source can lead to eye damage. Do not touch the housing during operation, the surface temperature can exceed 45 ° C.

General Safety Information

Repairs may only be carried out by the manufacturer. The relevant EU and national regulations and guidelines, particularly those relating to explosion protection, must be observed during assembly, operation and maintenance.

General Notes

We reserve the right to make changes. The devices are built to be as environmentally friendly as possible. They contain no environmentally harmful substances and neither silicone nor admixtures containing silicone. Irreparable or no longer used devices must be disposed of in accordance with the applicable regulations.

EU-Declaration of Conformity

The light sources comply with the following provisions:

EN IEC 60079-0: 2018, EN 60079-1: 2014, EN 60079-28: 2015, EN 60079-31: 2014, EN 60825-1: 2006, EN 60825-2: 2004; EN 60529, EN 61000-4-2 to EN 61000-4-6, EN 61000-6-1 / -2, EN 61000-6-4, ATEX directive: 2014/34 / EG, machinery directive: 2006/42 / EG, EMC directive: 2004/108 / EG, RoHS directive: 2011/65 / EU.

ATEX: EU type examination certificate no. SEV 19 ATEX 0307 X, IECEx CoC: IECEx SEV 19.0034X, NB: Eurofins Electric & Electronic Product Testing AG, Luppenstrasse 3, CH-8320 Fehraltorf Switzerland.

ATEX certificate for the production of Ex products according to the ATEX directive 2014/34/EU No: SEV 21 ATEX 4580, QAR No. CH/SEV/QAR21.0009/00, Eurofins Electric & Electronic Product Testing AG, Luppenstrasse 3, CH-8320 Fehraltorf. Ident. No.: 1258

The conformity of the devices with all used standards and directives and the EC-type examination certificate and the observation of the Quality Management System ISO 9001:2015 with the ATEX module „Production“, declares:

Ehrendingen, 12.7.2022



Pablo Ledergerber, Matrix Elektronik AG

LQG-Z2D-BMD-OP_e4/2022-07-12/MP

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