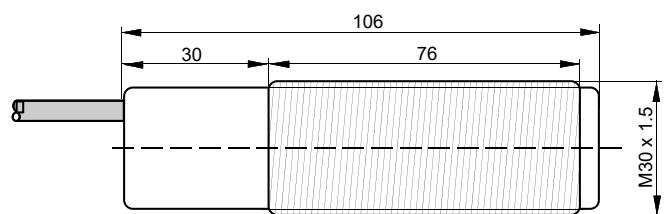


**Continuous lightsource type: LQO-W2B-ABX-OP**  
**Semiconductor light source with a long service life.**



Type	LQO-W2B-ABX-OP									
<b>Technical Data</b>										
Gas Ex protection designation	II (1)G [Ex op is IIC T4 Ga]									
Dust Ex protection designation	II (1)D [Ex op is IIIC T135°C Da]									
For use in Ex Zones	Zones (0), (20)									
Maximum optical radiant intensity	< 5mW/mm <sup>2</sup>									
Optical aperture angle	FWHM +- 40°									
Light Source Color	daylight white									
Color temperature	5500K (4500K - 8000K)									
Max. Luminous Flux $\phi_v$	285 lm									
Risk Group according EN62471	0									
Supply voltage, Ue	+24VDC +-10%									
Absolute maximum supply voltage, Um	30VDC									
Current consumption	80 mA									
Maximum power consumption	1.92W@24V									
Housing	M30, brass, nickel plated									
Enclosure rating	IP20									
Ambient working temperature range, T <sub>amb</sub>	-10°C up to +50°C									
Connection cable	TPU insulation, AWM 20236, 2+PE x 0.5mm <sup>2</sup> , halogen free, shielded, leads numbering marked, oil resistant cable for trailing, length: 10m									
Accessories	<b>Included</b>	<b>Optional</b>								
	• 2 x Nuts M30									
ATEX related markings	CE 1258 Typ: LQO-W2B-ABX-OP Gas: Ⓜ II (1)G [Ex op is IIC T4 Ga] ATEX: IECEX: Tamb: Manufacturing date:	Manufacturer with Address Electrical data according to table Dust: Ⓜ II (1)D [Ex op is IIIC T135°C Da] 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" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">+24VDC</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">0V</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">PE</td> <td style="text-align: center;">yellow-green</td> </tr> <tr> <td style="text-align: center;">Shield</td> <td style="text-align: center;">white</td> </tr> </table>		+24VDC	1	0V	2	PE	yellow-green	Shield	white
+24VDC	1									
0V	2									
PE	yellow-green									
Shield	white									
Dimensions										

LQO-W2B-ABX-OP\_e2/2024-02-26/MP

#### ATEX mounting prescriptions

It is necessary to take into consideration all the valid international and national rules and regulations (IEC 60079-14). Do not exceed the maximum ratings. The electrical connections must be exactly as shown in the wiring diagram. The local equipotential bonding connection is corrosion-resistant and durable to connect. The protective earth (PE) is solid connected with the housing. The cable shield should be connected to the protection earth. The cable have to be installed and protected against damages. Install cables with termination fittings or put them in cable tray systems in a manner to avoid tensile stress at the termination fittings. Adequate strain relief must be provided. The end of the cable must either be installed within a certificated Ex housing or must be installed outside of any Ex area. Use only original manufactured fibre optics and additional optical lenses, other additional optical lenses are not allowed in hazardous locations. The product MUST NOT be installed or operated inside hazardous atmospheres. The limited optical radiation may operate inside Ex zones (0) and (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 LQO-W2B-ABX-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/QAR21.0009/01, 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, 26.2.2024



Pablo Ledergerber, Matrix Elektronik AG