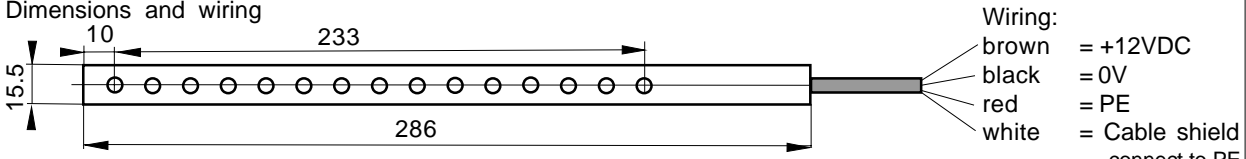


Original Operating Manual: LED Lightning Bar type AX-LBAR-15BLUE-OP



II 3G Ex ic op is IIC T4 Gc
II 3D Ex tc op is IIIA T135°C Dc IP54

- ATEX certification
- For use in Ex Zones 2, 22
- Lightning bar with 15 blue LED

Technical data	Type	AX-LBAR-15BLUE-OP
Length		300mm
Type of Ex protection Gas, directive 2014/34/EU		II 3G Ex ic op is IIC T4 Gc
Type of Ex protection Dust, directive 2014/34/EU		II 3D Ex tc op is IIIA T135°C Dc IP54
For use in Ex Zones		Zones 2, 22
Maximum optical radiant power		<=35mW per LED
Light source		15x visible blue LED, 490nm
Optical Beam pattern		appr.40°
Supply voltage		12VDC
Current consumption		100mA
Maximum power dissipation		1.2W
Intrinsically safe Rating Ui		12.6VDC
Intrinsically safe Rating Ii		232mA
Intrinsically safe Rating Pi		1500mW
Intrinsically safe Rating Ci		0
Intrinsically safe Rating Li		0
Housing		Metallized plastic
Enclosure rating, EN 60529		IP54
Ambient working temperature range Tamb		0°C up to +40°C
Storage temperature range		-10°C ... +60°C
Connection cable		2 + PE x 0.25mm ² , special PVC, blue jacket, shielded, length: 10m
Accessories		--
Options		- Cable length: Up to 20m, on request
Dimensions and wiring		

Mounting prescriptions:

Ex-Protection

It is necessary to take into consideration the valid international and national rules and regulations (EN 60079-14). The electrical connections must be exactly as shown in the control drawing for hazardous areas. The local equipotential bonding have to be done by a reliable, noncorrosive holding of the protection earth connection. The cable must be protected against damages. To connect cables inside the hazardous locations, only use certificated Ex housings. Only original manufacture optical parts must be used. Other additional optical lenses are not allowed in hazardous locations. The sensor must only be supplied by an approved intrinsically safe power supply or safety shunt barrier with the minimum specification II (3)G [Ex ic Gc] IIC / II (3)D [Ex ic Dc] IIIA, mounted out of the hazardous location.

Intended use, function

The LED bar is designed to lightning in potentially explosive atmospheres, Zones 2 and 22. It must be installed and operated in accordance to this operating manual and the intrinsic safe shunt diode safety barrier MZB11-12V-100MA-OC.

General Notes, disposal

We reserve the right to modify our equipment. Our equipment is designed such way, that it has the least possible adverse effect on the environment. It neither emit or contain any damaging or siliconized substances and use a minimum of energy and resources. No longer usable or

Operating Manual, EC/EU - Declaration of Conformity:

irreparable units must be disposed of in accordance with local waste disposal regulations.

General safety Informations

When installing and operating with the LED bar, it is necessary to take into consideration the relevant international and other national regulations. EN 60079-14, single directive 1999/92/EC.

The sensors are conform to the following directives and standards:

IEC/EN60079-0:2012+A11:2013, IEC/EN60079-11:2012, IEC/EN 60079-28:2014, IEC/EN 60079-31:2014, EN 60529:2014, EN 60950-1:2006; EN 61000-4-2 to EN 61000-4-6, EN 61000-6-1/-2, EN 61000-6-4, ATEX directive: 2014/34/EU, Machine directive: 2006/42/EC, EMC directive: 2014/30/EU, RoHS directive: 2011/65/EU.

EC-/EU-Declaration of Conformity:

ATEX certification: Declaration by manufacturer in accordance with the ATEX directive 2014/34/EU.

ATEX certification of quality type production of Ex devices according to the ATEX directive 2014/34/EU, CE 0158. Certification No: BVS 15 ATEX ZQS / E118. The conformity of the devices with the EC/UL standards and directives and the EC/UL-type examination certificate and the observation of the Quality Safety System ISO 9001:2008 with the ATEX module "Production", declares:



Hans Bracher, Matrix Elektronik AG