

KM-6-**-V2A-OK-OP1-S289 Glass rod prism



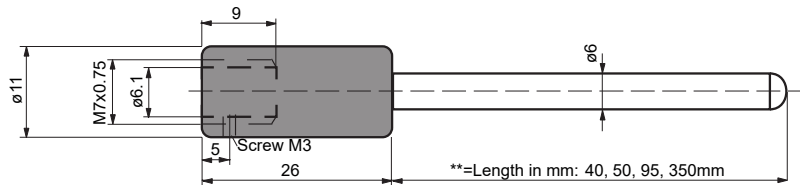
1258

- Accessory to fibre optics, for optical level detection of liquids



| Technical Data | KM-6-**-V2A-OK-OP1-S289 |
|---|---|
| Gas Ex protection designation | II 1G Ex op is IIC T4 Ga |
| Dust Ex protection designation | II 1D Ex op is IIIC T135°C Da |
| For use in Ex Zones | 0, 1, 2, 20, 21 and 22 |
| Ex requirements of connected sensors | Ex op is Ga/Da |
| Length | **=Length in mm: 40, 50, 95, 350mm |
| Materials | fastening sleeve: Stainless steel 1.4301 glass rod prism: Borosilicate glass DURAN |
| Enclosure rating | IP68 |
| Active diameter of the glass rod | 6mm |
| Ambient working temperature range, T _{amb} | -20°C up to +120°C |

Dimensions



EX related markings

CE 1258

Gas: Ⓜ II 1G Ex op is IIC T4 Ga

ATEX:

IECEX:

Tamb: -20°C up to +120°C

(X designation of the certification number: Fibre optics must only be applied with sensors with certificated limited optical power).

Manufacturing date: Digits 5 to 8 of the serial number(Year / CW)

Dust: Ⓜ II 1D Ex op is IIIC T135°C Da

BVS 10 ATEX E 130 X

IECEX BVS 14.0108X

Manufacturer with address

Operating Manual / EU-declaration of conformity

Ex installation prescriptions

It is necessary to take into consideration the valid international and national rules and regulations (IEC 60079-14). The optical fibre must only be operated with ATEX/IECEX homologated sensors from Matrix Elektronik AG. The maximum rated optical input power must not be exceeded. The local equipotential bonding have to be done by grounding the fixed sensor. Other than original manufacturer, additional optical lenses are not allowed in hazardous locations. The fibre optics have to be installed in a manner that avoids tensile stress and frictional heat. If fibre optics and associated sensors are not mounted in the same hazardous location, the change over of the different areas must be realized in accordance with the valid regulations. The product KM-6-**-V2A-OK-OP1-S289 is applicable in Ex zones 0, 1, 2, 20, 21 and 22.

Function

The glass rod prism, with connected fibre optics, are applicable for optical level detection of liquids in Ex hazardous locations and can be operated with certificated fibre optics and sensors, with a wavelength of 500nm to 900nm.

General safety

When installing and operating the product, it is necessary to take into consideration all relevant international and other national regulations, especially those regarding explosion protection.

Maintenance

No special maintenance is required.
The equipment must only be repaired or serviced by the manufacturer.

General notes and disposal

We reserve the right to modify our products. Our products are designed in such a way, that it has the least possible adverse effect on the environment. It neither emits or contains any damaging or siliconized substances and use a minimum of energy and resources. No longer usable or irreparable units must be disposed of in accordance with local waste disposal regulations.

EU-Declaration of Conformity

The product meets the requirements of the following standards and directives:
EN IEC 60079-0:2018, EN 60079-28:2015, ATEX directive 2014/34/EU, Machine directive 2006/42/EC, RoHS directive 2011/65/EU

ATEX/IECEX-Designation:

Gas: II 1G Ex op is IIC T4 Ga

Dust: II 1D Ex op is IIIC T135°C Da

ATEX EU-type examination certificate No.: BVS 10 ATEX E 130 X

IECEX CoC No.: IECEX BVS 14.0108X

Ex CB IECEX: DEKRA Testing and Certification GmbH, Carl-Beyling-Haus, Dinendahlstrasse 9, D-44809 Bochum.

ATEX certification of quality management system, type production of Ex devices, in accordance to the directive 2014/34/EU:

Certification No.: SEV 21 ATEX 4580, QAR No.: CH/SEV/QAR21.0009, CB: Eurofins Electric & Electronic Product Testing AG, Luppmenstrasse 3, CH-8320 Fehraltorf CE 1258 Ident. Number: 1258

Pablo Ledergerber, Matrix Elektronik AG, is authorized to generation of documentation. The conformity of the devices with all used standards, directives and EC-type examination certificates and the observation of the Quality Management System ISO 9001:2015, declares:

Ehrendingen, 13.8.2025

Pablo Ledergerber, Matrix Elektronik AG

KM-6-xx-V2A-OK-OP1-S289_e1/2025-08-13/MP

Matrix Elektronik AG (Manufacturer)
 Kirchweg 24, CH-5420 Ehrendingen
 Tel.: +41 56 20400-20, Fax -29
 info@matrix-elektronik.com
Tippkemper-Matrix GmbH
 Meegerer Str. 43, D-51491 Overath
 Tel.: +49 2206 9566-0, Fax -19
 info@tippkemper-matrix.de