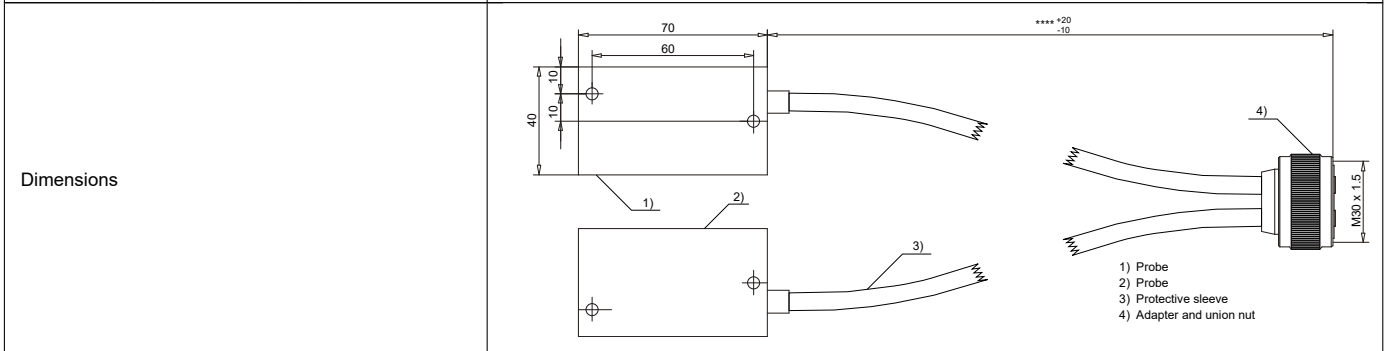


Datasheet: QWV-****-04-L-5K-OP2 Cross-section converter fibre optics



- Measuring head and hose made of stainless steel.
- Suitable for width measurement, web edge control, etc.

Technical Data	Type	QWV-****-04-L-5K-OP2
Gas Ex protection designation		II 2G op is IIB T4 Ga
Dust Ex protection designation		II 2D op is IIIB T135°C Da
For use in Ex Zones		Zones 1, 2, 21, 22
Scanning width		50mm
Total length		****=Length in mm, 200, 300, 500, 1000, 1500, 2000 (Overall length)
Optical aperture angle		approx. 67° at 880nm
Single fiber diameter		50um
Average transmission		50-70% at 880nm
Minimum bending radius		50mm (Einzelbiegung)
Material Probe		Stainless steel 1.4301
Material protective sleeve		Stainless steel 1.4301
Material adapter		Stainless steel 1.4301
Material union nut		Ms 58 nickel plated
Fastening the scanning unit		Through the ø 4mm holes
Mounting on the sensor		Union nut M30
Enclosure rating		IP68
Ambient working temperature range, T _{amb}		-20°C up to +120°C



Operating Manual / EC-/EU-declaration of conformity

Function

Together with appropriate sensors, the fiber optic cable type QWV-****-04-L-5K-OP2 enables precise position determination/width measurement of different objects.

Installation instructions

The light guides must be laid without twist and tension. In drag chains, the light guides must be able to move freely. The attenuation of the light guide can be increased massively by impermissibly small bending radii. In addition, the protective sheath or the optical fibers can be affected or seriously damaged at an early stage. The specified temperature range must not be fallen below or exceeded.

Maintenance

The light guides are maintenance-free. Use water or a mild detergent for cleaning. The optical light guides must be kept clean and free of grease.

General safety informations

- During installation, operation and maintenance the relevant regulations and guidelines must be observed.
- The light guides are not suitable for medical applications.
- The light guides must not be brought into direct contact with food.

General notes, disposal

We reserve the right to make changes. The light guide is built as environmentally friendly as possible. Irreparable or no longer used light guides must be disposed of in accordance with the applicable regulations.

EU-Declaration of Conformity

The product meets the requirements of the following standards and directives: EN IEC 60079-0:2018, IEC 60079-28:2015, IEC 60079-31:2013, ATEX directive 2014/34/EU, Machine directive 2006/42/EC, RoHS directive 2011/65/EU

ATEX/IECEx-Designation:

Gas: II 2G op is IIB T4 Ga
Dust: II 2D op is IIIB 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, Ident number: 0158.

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/QAR21.0009/01, CB: Eurofins Electric & Electronic Product Testing AG, Luppmenstrasse 3, CH-8320 Fehraltorf CE 1258.

Pablo Ledergerber, Matrix Elektronik AG, is authorized to generation of documentation.

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, declares:

Ehrendingen, 7.3.2024

Pablo Ledergerber, Matrix Elektronik AG