

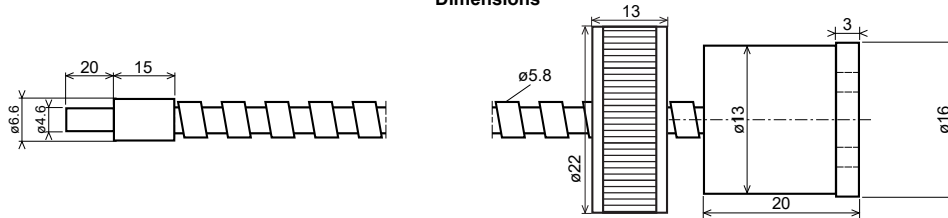
MS-M18-***-1-T-y4.6-z6.6 Fibre optics



- For rotational speed detection

Technical Data	MS-M18-***-1-T-y4.6-z6.6
Total length	***=Length in m, 50/100 (Overall length)
Active fibre optic diameter	1mm
Active cross-sectional area	0.78m ² (Transmitter and receiver fibres mixed)
Single fiber diameter	50um
Average transmission	approx. 55%, at 650nm
Optical acceptance angle	approx. 70°
Minimum bending radius	30mm (Single bend)
Materials	adapter and probe: Special steel, 1.4305 protection sheath: Ms 58 nickel plated core: Glass fibre type S68 core sheath: Silicon rubber
Ambient working temperature range, T _{amb}	-20°C up to +120°C

Dimensions



Operating Manual / EU-declaration of conformity

General installation prescriptions

The fibre optics must be installed free of twists and tensionless. Inside drag chains, the fibre optics must be able to move freely. Impermissible small bending radii increase attenuation of the fibre optics and cause unnecessary wear and tear, or even damage, of the protection sheath or fibre optics itself.

Function

The fibre optics series MS-M18-***-1-T-y4.6-z6.6 are designed for rotational speed detection in locations with high ambient temperatures or other hazards.

General safety

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

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 60793-1-1:2009-04, EN 60793-1-31:2002-10, EN 60793-1-40:2004-08, EN 60793-1-53:2002-10, Machine directive 2006/42/EC, RoHS directive 2011/65/EU
 Pablo Ledergerber, Matrix Elektronik AG, is authorized to generate 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, 9.10.2025
Pablo Ledergerber, Matrix Elektronik AG

MS-M18-xxx-1-T-y4.6-z6.6_e1/2025-10-09/MP

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