

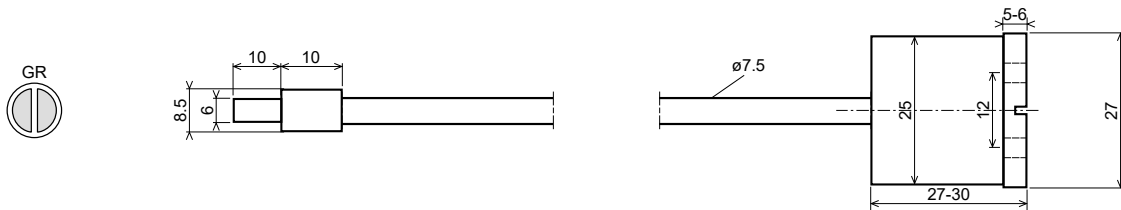
## SKM-\*\*\*\*-02-T-GR Glass fibre optics



- Silicone rubber protection sheath with a stainless steel reinforcement for proximity switch measurement method.

Technical Data		SKM-****-02-T-GR	
Total length	****=Length in mm, 200, 500, 1000, 1500, 2000 (Overall length)		
Length tolerance	±50mm		
Active fibre optic diameter	2mm		
Active cross-sectional area	3.14mm <sup>2</sup>		
Single fiber diameter	50um		
Average transmission	50-70%, at 870nm		
Optical acceptance angle	approx. 65°, at 870nm		
Minimum bending radius	50mm (Single bend)		
Materials	adaption probe tip:	Special steel, 1.4305	
	probe tip:	Special steel, 1.4305	
	protection sheath:	Silicone rubber with stainless steel reinforcement	
Enclosure rating	IP68		
Ambient working temperature range, T <sub>amb</sub>	-20°C up to +120°C		
Accessories	<b>Included</b>		<b>Optional</b>
			• Additional optics type OT-VA (Material: brass)

### Dimensions



### Operating Manual / EU-declaration of conformity

#### Function

The fibre optics series SKM-\*\*\*\*-02-T-GR are designed for the construction of proximity switch measurement method arrangements in hazardous locations and for high ambient temperatures. The fibre optics can be operated with certificated Matrix sensors, with limited optical radiation power and with an optical wave length from 500nm to 900nm. The fibre optics must not be buckled or laid with a small radius. Buckled or bad laid fibre optics results to a strong decrease of performance. Avoid performance decreasing and failures caused by wear, by a functional mounting of the fibre optics.

#### 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. Protect the product and any optical ports (if applicable) from pollution. Clean with **non-aggressive** solvents only. Strong solvents may damage certain fibre optics. 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, IEC 60079-28 / ISH 1:2019, EN 60079-28:2015, ATEX directive 2014/34/EU, Machine directive 2006/42/EC, RoHS directive 2011/65/EU  
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, 23.6.2025

  
Pablo Ledergerber, Matrix Elektronik AG