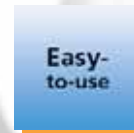


Fibre optic: highly flexible and reliable.



Smallest bending radius 3 mm, optimum choice for restricted installation conditions.

- Minimum bending radii without optical losses.
- High mechanical strength for a reliable function.
- Plastic fibres can be cut to length.
- Ranges comparable to common fibre optics.
- Simple amplifier connection.

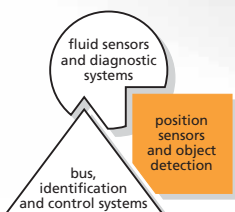


Extremely flexible and robust

The new generation of highly flexible acrylic fibre optics facilitates installation. They are very robust and can be laid across edges without reducing their optical performance.

Variants

Through-beam systems are available with sensing head sizes M3 and M4, diffuse reflection sensors in M3, M4 and also in M6. The user is provided with highly flexible versions with two different cross sections. Using ifm's cutter the fibres can be cut to the desired length. They are connected to the OBF or OO type fibre optic amplifiers via clamp screws.



Photoelectric sensors

Thread sensing head	Range to amplifiers OO / OBF [mm]	Diameter outside / core [mm]	Minimum bending radius [mm]	Fibre arrangement	Number of core fibres	Order no.
Through-beam system						
M3	750 / 250	2.2 / 1.2	3		613	E21101
M4	750 / 250	2.2 / 1.2	3		613	E21102
M3	120 / 50	1.0 / 0.5	3		217	E21103
M4	120 / 50	1.0 / 0.5	3		217	E21104
Diffuse reflection sensor						
M6	180 / 70	2.2 / 1.2	3		613	E21105
M4	30 / 10	1.0 / 0.5	3		217	E21106
M3	30 / 10	1.0 / 0.5	3		217	E21107

Only the genuine ifm cutter (order no. E20600) ensures the technical data.

Accessories and connectors

Type	Description	Order no.
	Cutter for acrylic fibres	E20600
	Lens attachment with internal thread M3, lateral sensing face	E20754
	Lens attachment with internal thread M4, lateral sensing face	E20755
	Lens attachment with internal thread M3, front sensing face	E20679
	Lens attachment with internal thread M4, front sensing face	E20680
	Diaphragm attachment with internal thread M3, diaphragm 0.4 mm diameter	E20762
	Diaphragm attachment with internal thread M4, diaphragm 0.4 mm diameter	E20760
	Diaphragm attachment with internal thread M4, diaphragm 0.4 x 4.3 mm	E20761
	M12 socket, 8-pole, 2 m black, PUR cable	E11231
	M16 socket, 14-pole, 2 m black, PUR cable	E11645
	M12 socket, 4-pole, 2 m black, PUR cable	E10906
	M12 socket, 4-pole, 5 m black, PUR cable	E10907
	M8 socket, 4-pole, 2 m black, PUR cable	E11199
	M8 socket, 4-pole, 5 m black, PUR cable	E11200

Common technical data

Type E21101...E21107	
Version	straight
Materials:	Sensing head: AL, PE, PMMA Sheath: PE, PMMA Fibre optic: PMMA
Operating temperature [°C]	-40...60
Total length [m]	2

Fibre optic amplifiers

Type	Description	Order no.
OO5000	2 channels, M12 connector, 8-pole	OO5000
OO5001	4 channels, M12 connector, 8-pole	OO5001
OO5003	6 channels, M16 connector, 14-pole	OO5002
OO5003	8 channels, M16 connector, 14-pole	OO5003
OB5024	1 channel, M12 connector	OB5013
OB5024	1 channel, M8 connector	OB5024

You can find a detailed fibre-optic selector at: http://www.ifm-electronic.com/ifmgb/web/ps!select1_40_30_20.html

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