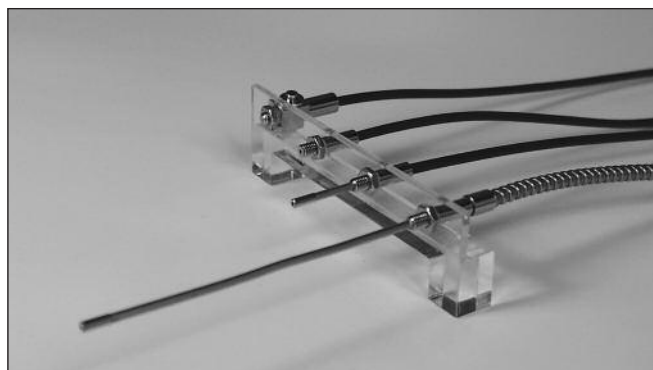


Photoelectrics Fibre Optics, Glass Types FGT, FGD

CARLO GAVAZZI



- Fibre diameter $\varnothing 1$ mm ($400 \times 50 \mu\text{m}$)
- Temperature range from -25°C up to 200°C
- Bending radius 10, 20 or 30 mm
- Sheath material PVC/thermo polyolefine, metallic spiral/polyolefine or flexible INOX

Type Selection

Length [cm]	Distance ¹⁾ [mm]	Dimensions [mm]	Standard glass Ordering no.	Reinforced metal Ordering no.	High temperature Ordering no.
60 100 150 200	200 200 200 200		FGT 01 SCM 060 FGT 01 SCM 100 FGT 01 SCM 150 FGT 01 SCM 200	FGT 01 MCM 060 FGT 01 MCM 100 FGT 01 MCM 150 FGT 01 MCM 200	FGT 01 TCM 060 FGT 01 TCM 100 FGT 01 TCM 150 FGT 01 TCM 200
60 100 150 200	80 80 80 80		FGD 02 SCM 060 FGD 02 SCM 100 FGD 02 SCM 150 FGD 02 SCM 200	FGD 02 MCM 060 FGD 02 MCM 100 FGD 02 MCM 150 FGD 02 MCM 200	FGD 02 TCM 060 FGD 02 TCM 100 FGD 02 TCM 150 FGD 02 TCM 200
60 100	200 200		FGT 03 SCM 060		FGT 03 TCM 100
60 100 150 200	80 80 80 80		FGD 04 SCM 060 FGD 04 SCM 100 FGD 04 SCM 150	FGD 04 MCM 060 FGD 04 MCM 100 FGD 04 MCM 150	FGD 04 TCM 060 FGD 04 TCM 100 FGD 04 TCM 200
60	200		FGT 05 SCM 060		
60 100 200	80 80 80		FGD 06 SCM 060 FGD 06 SCM 100 FGD 06 SCM 200	FGD 06 MCM 060 FGD 06 MCM 100	FGD 06 TCM 100 FGD 06 TCM 200
60 100 150 200	80 80 80 80		FGD 07 SCM 060 FGD 07 SCM 100 FGD 07 SCM 150 FGD 07 SCM 200	FGD 07 MCM 060 FGD 07 MCM 100 FGD 07 MCM 150	FGD 07 TCM 060 FGD 07 TCM 100 FGD 07 TCM 150 FGD 07 TCM 200
60 100 150 200	200 200 200 200		FGT 07 SCM 060 FGT 07 SCM 100 FGT 07 SCM 150	FGT 07 MCM 060 FGT 07 MCM 100 FGT 07 MCM 150 FGT 07 MCM 200	FGT 07 TCM 060 FGT 07 TCM 100 FGT 07 TCM 150 FGT 07 TCM 200

¹⁾ Sensing distance given for a fibre length up to 1 m.



General Specifications

Bending radius FG...SCM...: FG...MCM...: FG...TCM...:	10 mm 20 mm 30 mm	Sheath material FG...SCM...: FG...MCM...: FG...TCM...:	PVD and thermo polyolefine Metallic spiral and polyolefine Flexible INOX
Temperature range FG...SCM...: FG...MCM...: FG...TCM...:	-25 to +60°C (-13 to +140°F) -25 to +120°C (-13 to +248°F) -25 to +200°C (-13 to +392°F)	Fibre Diameter Attenuation vs. length (@ 4 m) Attenuation vs. bending radius	Ø1 mm, 400 x 50 µm Through beam: ≤ 20% Diffuse: ≤ 35% r = 15 mm: ≤ 3% r = 10 mm: ≤ 15%

Accessories - Lenses for FGT 01.. & FGD 02.. Fibre Optic

AFGT 03
Sensing range: 800 mm

AFGT 04
Sensing range: 800 mm

AFGD 05
Focus point: 10 mm

AFGT 06
Sensing range: 3000 mm

AFGT 07
Sensing range: 3000 mm

AFGD 08
Focus point: 30 mm

Ordering Key

FGT 01 SCS 200

Optic Fibre _____

Fibre material _____
G Glass

Fibre type _____
D Diffuse
T Through-beam

Sensor head 01-99 _____
Forthrunning type number

Sheath material _____
S Standard glass, PVC and thermo polyolefine
M Metallic spiral and polyolefine
T Flexible INOX

Fibre diameter _____
C 1.0 mm

Core condition _____
M Multicore

Fibre length 001-999 _____
cm 1 cm to 9.9 m

Mouser Electronics

Authorized Distributor

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[FGT07SCM150](#) [FGT07TCM060](#) [FGT07TCM100](#) [FGT07TCM200](#) [FGT07MCM060](#) [FGT07MCM100](#) [FGT07MCM150](#)
[FGT07MCM200](#) [FGT07SCM060](#) [FGT07SCM100](#) [FGT01TCM100](#) [FGT01TCM150](#) [FGT01TCM200](#) [FGT03SCM060](#)
[FGT03TCM100](#) [FGT05SCM060](#) [FGT01MCM200](#) [FGT01SCM060](#) [FGT01SCM100](#) [FGT01SCM150](#) [FGT01SCM200](#)
[FGT01TCM060](#) [FGD07TCM100](#) [FGD07TCM150](#) [FGD07TCM200](#) [FGT01MCM060](#) [FGT01MCM100](#)
[FGT01MCM150](#) [FGD07MCM150](#) [FGD07SCM060](#) [FGD07SCM100](#) [FGD07SCM150](#) [FGD07SCM200](#) [FGD07TCM060](#)
[FGD06SCM100](#) [FGD06SCM200](#) [FGD06TCM100](#) [FGD06TCM200](#) [FGD07MCM060](#) [FGD07MCM100](#)
[FGD04TCM060](#) [FGD04TCM100](#) [FGD04TCM200](#) [FGD06MCM060](#) [FGD06MCM100](#) [FGD06SCM060](#)
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[FGD02SCM150](#) [FGD02SCM200](#) [FGD02TCM060](#) [FGD02TCM100](#) [FGD02TCM150](#) [FGD02TCM200](#)