Fibre optic sensor for glass fibre optics

SU15-G/32/82f/95

with 4-pin, M8 connector

CE

- Parameterisation via optical communication link (e.g. optional time increments)
- Pre-fault indication and output (dynamic and static)
- Visible red light
- Protected against mutual interference
- DIN rail mounting
- Extensive fibre optic product selection as accessories

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General specifications	
Effective detection range	depends on the fibre optics being used see selection table for fibre optics
Light source	LED , 660 nm
Approvals	CE
Reference target	standard white, 50 mm x 50 mm (in direct detection)
Light type	red, modulated light
Ambient light limit	10000 Lux
Indicators/operating means	
Operating display	LED green
Function display	TEACH-IN: LED green flashing switching state: LED yellow pre-fault indicator: LED red flashing
Operating elements	membrane keys for setting sensitivity and TEACH IN
Electrical specifications	
Operating voltage	10 ... 30 V DC
Ripple	10 %
No-load supply current I_0	≤ 26 mA
Input	
Control input	parameterisable
Output	
Output of the pre-fault indication	pnp, dynamic/static configurable
Switching type	light/dark ON, switchable
Signal output	1 switch output, pnp, NC or NO 1 multi-function input/complementary switch output/pre-fault output (pnp), parameterisable
Switching voltage	max. 30 V DC
Switching current	max. 200 mA
Voltage drop U_d	≤ 2 V DC
Switching frequency f	≤ 1.5 kHz
Response time	≤ 0.33 ms
Timer function	parameterisable
Standard conformity	
Standards	EN 60947-5-2
Ambient conditions	
Ambient temperature	-25 ... 70 °C (248 ... 343 K)
Storage temperature	-40 ... 80 °C (233 ... 353 K)
Mechanical specifications	
Protection degree	IP65
Connection	4-pin, M8 x 1 connector
Material	
Housing	PBT
Mass	30 g

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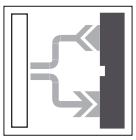

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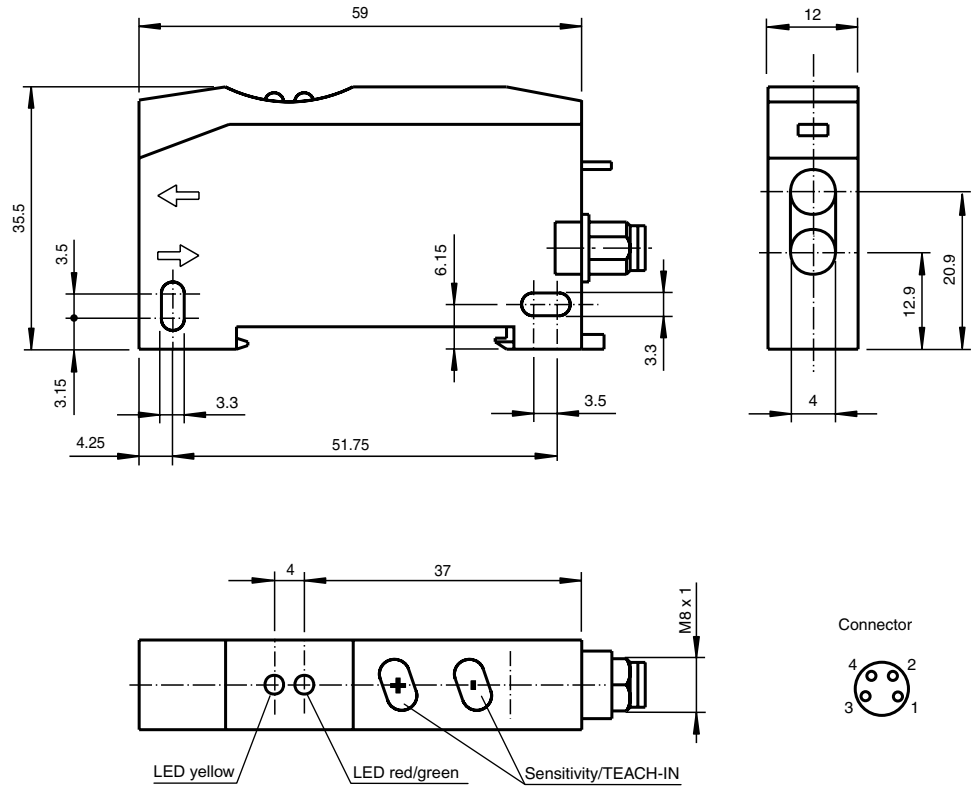
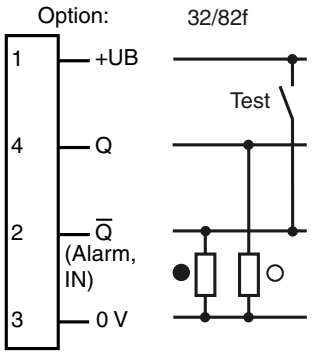
Dimensions



Electrical connection



❍ = light on, ● = dark on

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Selection table for fibre

	Model number	Range in mm	Detection range in mm	Fig.
fibre optics, single path with PVC coating	LCE 06-1,9-0,5-K9	500		4
	LCE 06-2,3-0,5-K2	600		1
fibre optics, single path with metal coating	LME 06-1,9-0,5-K9	500		4
	LME 06-2,3-0,5-K10	600		5
	LME 06-2,3-0,5-K2	600		1
	LME 06-2,3-0,5-K3	600		2
	LME 06-2,3-0,5-K4	600		3
	LME 06-2,3-1,0-K2	600		1
	LME 06-2,3-2,0-K2	600		1
glass fibre optics, single path with silicone coating	LSE 06-1,1-0,5-K9	100		4
fibre optics, reflex with PVC coating	LCR 06-2,7-0,5-K9		75	12
	LCR 06-3,2-0,5-K1		100	6
	LCR 06-3,2-0,5-K2		100	7
	LCR 06-3,2-0,5-K5		100	10
	LCR 06-3,2-1,0-K5		100	10
	LCR 06-3,2-2,0-K2		100	7
glass fibre optics, reflex with metal coating	LMR 06-1,1-0,5-K3		10	8
	LMR 06-2,3-0,25-K3		45	8
	LMR 06-2,3-0,5-K3		45	8
	LMR 06-2,3-0,5-K7		45	11
	LMR 06-2,7-0,5-K9		75	12
	LMR 06-3,2-0,5-K1		100	6
	LMR 06-3,2-1,0-K1		100	6
	LMR 06-3,2-2,0-K1		100	6
	LMR 06-3,2-2,0-K4		100	9
	LMR 06-3,2-3,0-K1		100	6
fibre optics, reflex with silicone coating	LSR 06-2,3-0,5-K12		45	13
	LSR 06-3,2-0,5-K1		100	6

Other lengths and end pieces available on request

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Fig.1

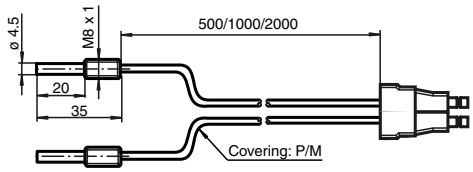


Fig.2

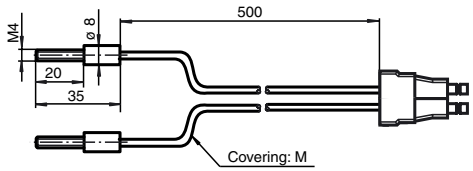


Fig.3

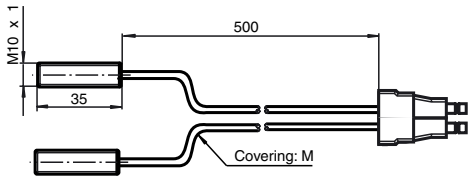


Fig.4

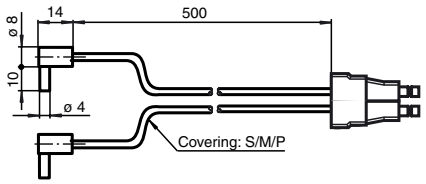


Fig.5

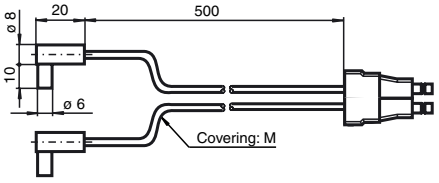


Fig.6

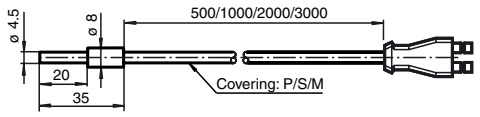
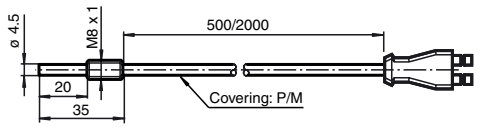


Fig.7



Covering material:
M = metal, P = PVC, S = silicone

Fig.8

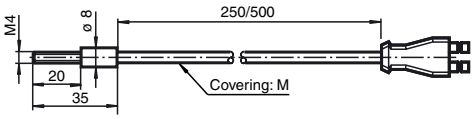


Fig.9

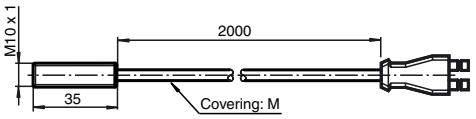


Fig.10

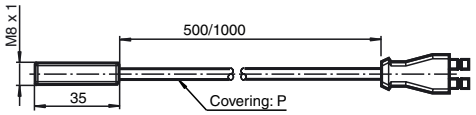


Fig.11

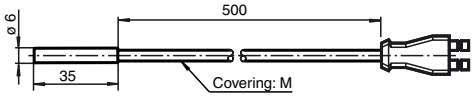


Fig.12

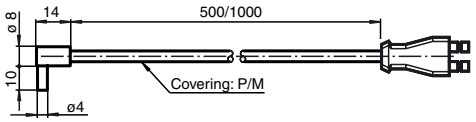
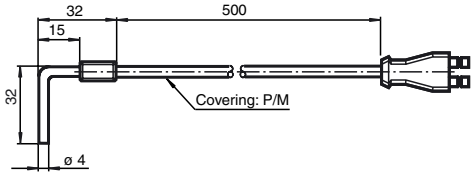
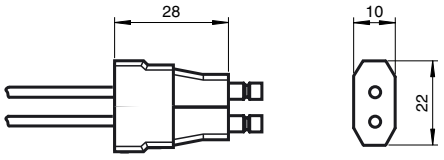
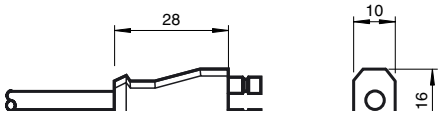


Fig.13







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