

# FMS 30-35 U

Photoelectric proximity sensor for adaptation of fibre-optic cables



## PRODUCT HIGHLIGHTS

- Scanning distance dependant on fibre-optic cable
- Fibre-optic cable adaptable
- Universal PNP/NPN output
- N.O./N.C. selectable
- Contamination indicator / output
- M30 metal threaded sleeve

Optical data		Functions	
Scanning distance	2 m <sup>1</sup>	Indicator LED, green	Operating voltage indicator
Type of light	Infrared, 880 nm	Indicator LED, yellow	Switching output indicator
Distance hysteresis <sup>1</sup>	≤ 10 % of the set scanning distance	Indicator LED, red	Contamination indicator
Aperture angle	< 18 %	Sensitivity adjustment	Via 18-step potentiometer
Electrical data		Mechanical data	
Operating voltage, +U <sub>B</sub>	10 ... 30V DC <sup>2</sup>	Dimensions	See dimensional drawings
No-load current, I <sub>0</sub>	≤ 40 mA	Enclosure rating	IP 65 <sup>3</sup>
Output current, I <sub>e</sub>	≤ 200 mA	Material, housing	Brass, nickel-plated
Pull-up resistance	22 kΩ	Type of connection	See Selection Table
Pull-down resistance	22 kΩ	Ambient temperature: operation	-20 ... +60 °C
Protective circuits	Reverse-polarity protection, U <sub>B</sub> / short-circuit protection (Q)	Ambient temperature: storage	-40 ... +80 °C
Protection Class	2	Weight (plug device)	215 g
Power On Delay	≤ 300 ms	Weight (cable device)	315 g
Switching output, Q	PNP	Vibration and impact resistance	EN 60947-5-2
Output function	N.O./N.C.		
Switching frequency, f (ti/tp 1:1)	≤ 100 Hz		

<sup>1</sup> Reference material: white, 90 % reflectivity    <sup>2</sup> 10 % ripple, within U<sub>B</sub>    <sup>3</sup> With connected IP 65 plug

Type of connection	Part number	Article number
Cable, 3 m, 4-wire	FMS 30-35 U	544-51323
Plug, M12, 5-pin	FMS 30-35 UL5	544-51324

