FMS 30-34 U

Photoelectric proximity sensor for adaptation of fibre-optic cables



PRODUCT HIGHLIGHTS

- Our bestseller: ideal for the most diverse applications
- Red light, infrared
- Scanning distance dependant on fibre-optic cable
- Fibre-optic cable adaptable
- N.O./N.C. selectable
- Contamination indicator / output
- M30 metal threaded sleeve

Optical data	
Scanning distance	1.5 m / 2 m[1]
Type of light	Red, 645 nm / infrared, 880 nm / infrared, 950 nm
Distance hysteresis[1]	< 10 % of the set scanning distance

Functions	
Indicator LED, green	Operating voltage indicator
Indicator LED, yellow	Switching output indicator
Indicator LED, red	Contamination indicator
Sensitivity adjustment	Via 18-step potentiometer

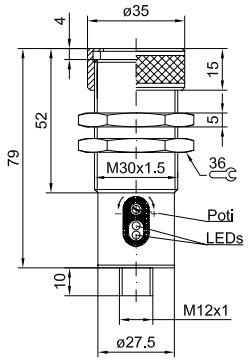
Electrical data	
Operating voltage, $+U_B$	10 … 30 V DC[2]
No-load current, I_0	≤ 40 mA
Output current, Ie	≤ 200 mA
Pull-up resistance	22 kΩ
Pull-down resistance	22 kΩ
Protective circuits	Reverse-polarity protection, U_B / short-circuit protection (Q)
Protection Class	2
Power On Delay	≤ 300 ms
Switching output, Q	PNP/NPN
Output function	N.O./N.C.
Switching frequency, f (ti/tp 1:1)	≤ 100 Hz

Mechanical data	
Dimensions	See dimensional drawings
Enclosure rating	IP 65[3]
Material, housing	Brass, nickel-plated
Type of connection	See Selection Table
Ambient temperature: operation	-20 … +60 °C
Ambient temperature: storage	-40 … +80 °C
Weight (plug device)	210 g
Weight (cable device)	315 g
Vibration and impact resistance	EN 60947-5-2

[1] Reference material: white, 90 % reflectivity [2] 10 % ripple, within U_B [3] With connected IP 65 plug

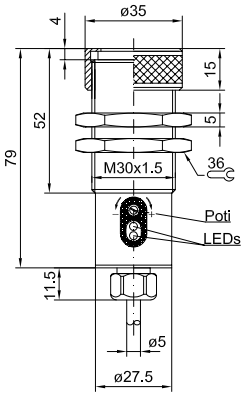
Scanning distance	Type of light	Type of connection	Part number	Article number
2 m	Red, 645 nm	Plug, M12, 4-pin	FMS 30-34 UL4-52	540-51607
2 m	Red, 645 nm	Cable, 3 m, 4-wire	FMS 30-34 U-52	540-51604
1.5 m	Infrared, 950 nm	Cable, 3 m, 4-wire	FMS 30-34 U-54	540-51605
2 m	Infrared, 880 nm	Plug, M9x0.5, 4-pin	FMS 30-34 UA4	540-51606

Plug connection: FMS 30-34 UL4-52



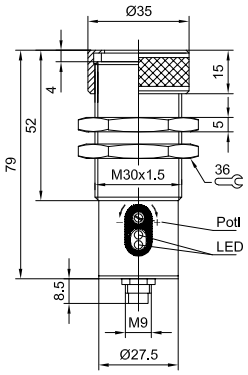
153-00005

Cable connection



153-00004

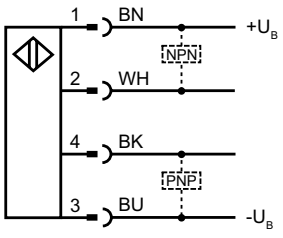
Plug connection: FMS 30-34 UA4



153-00008

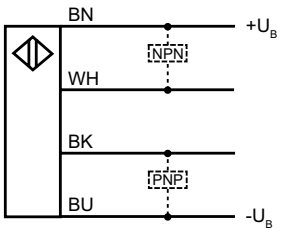
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Connection, 4-pin: FMS 30-34 UL4-52



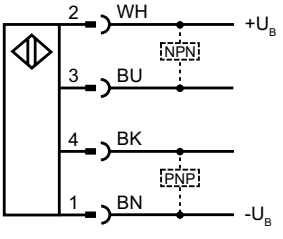
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Connection, 4-pin



154-00282

Connection, 4-pin: FMS 30-34 UA4



154-00263