

FM 05

Photoelectric proximity sensor



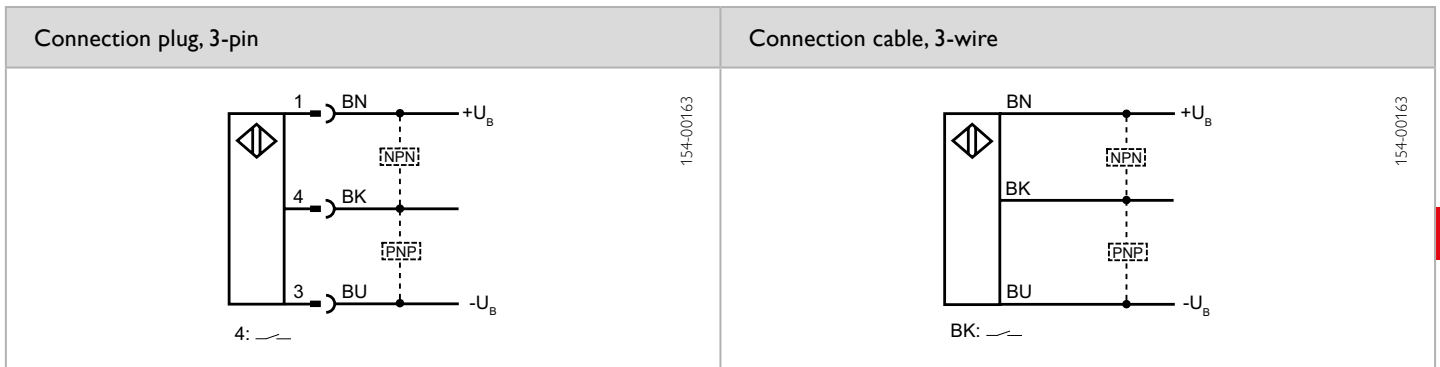
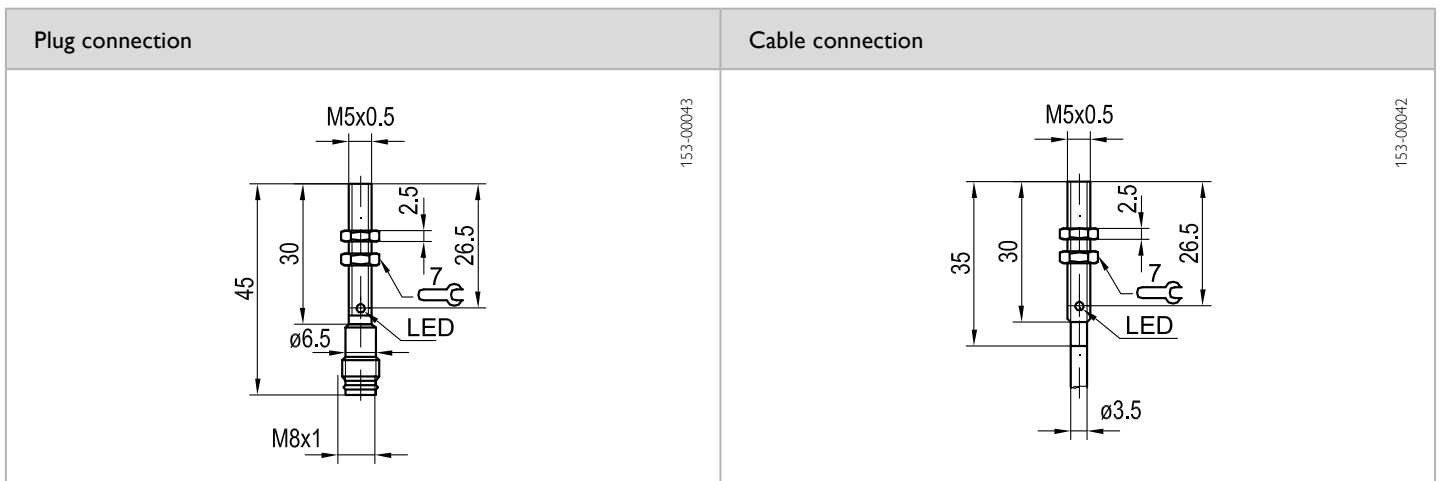
PRODUCT HIGHLIGHTS

- Very small housing: cylindrical, M5
- Simple installation due to standard thread
- Glass optics for easy cleaning
- Fully sealed under vacuum, enclosure rating of IP 67

Optical data		Functions	
Scanning distance	0 ... 50 mm ¹	Indicator LED, yellow	Switching state indicator
Type of light	Infrared, 880 nm		
Electrical data		Mechanical data	
Operating voltage, +U _B	10 ... 30V DC	Dimensions (cable device)	M5 x 45 mm
No-load current, I ₀	≤ 15 mA	Dimensions (plug device)	M5 x 35 mm
Output current, I _e	≤ 100 mA	Enclosure rating	IP 67 ²
Protective circuits	Reverse-polarity protection, U _B / short-circuit protection	Material, housing	Stainless steel, V2A
Power On Delay	120 ms	Material, front screen	Glass
Switching output, Q	PNP/NPN / max. 100 mA	Type of connection	See Selection Table
Output function	N.O.	Ambient temperature: operation	0 ... +55 °C
Switching frequency, f (ti/tp 1:1)	≤ 250 Hz	Vibration and impact resistance	IEC 60947-5-2
Response time	≤ 2.5 ms		

¹ Reference material: Kodak white, 90 % reflectivity ²With connected IP 67 plug

Switching output	Type of connection	Part number	Article number
PNP	Plug, M8, 3-pin	FM 05-163	718-51404
NPN	Plug, M8, 3-pin	FM 05-153	718-51405
PNP	Cable, PVC, 3 x 0.14 mm ² , 2 m	FM 05-161	718-51402
NPN	Cable, PVC, 3 x 0.14 mm ² , 2 m	FM 05-151	718-51403



Accessories	
Connection cables	From Page A-38
Brackets	From Page A-4