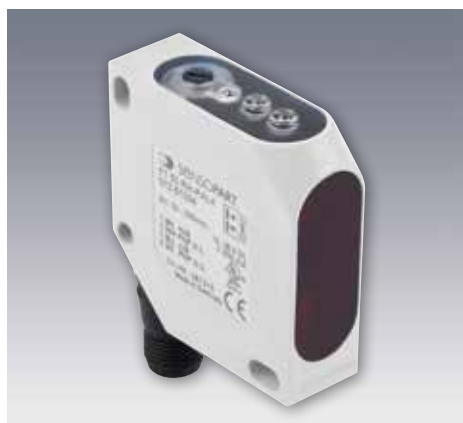


# FT 50 IH

Infrared photoelectric proximity sensor with background suppression



## PRODUCT HIGHLIGHTS

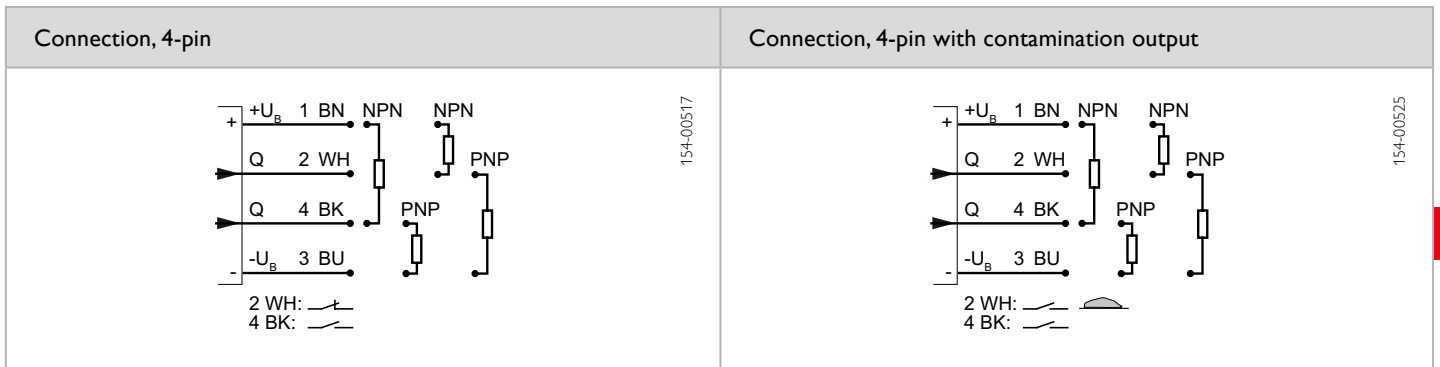
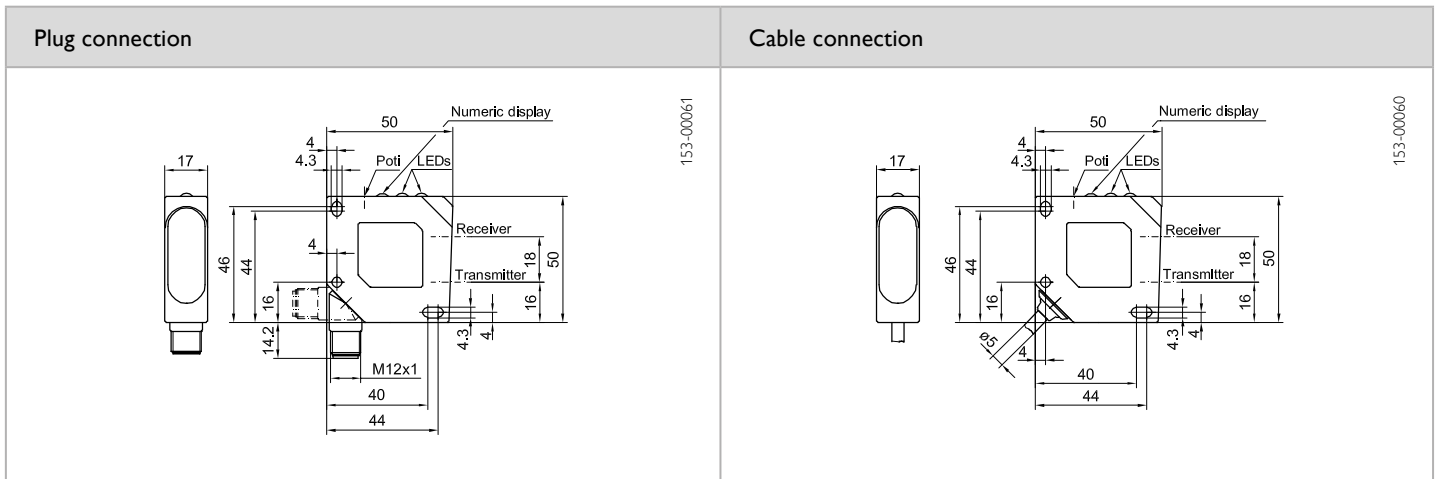
- Long scanning distance of 600 mm
- Precisely adjustable background suppression
- Simple scanning distance adjustment thanks to indicator scale
- Optional contamination output

Optical data		Functions	
Scanning distance	150 ... 600 mm <sup>1</sup>	Indicator LED, green	Operating voltage indicator
Type of light	LED, infrared, 880 nm	Indicator LED, yellow	Switching output indicator
Light spot size <sup>2</sup>	20 x 20 mm <sup>2</sup>	Indicator LED, red	Contamination indicator
Hysteresis <sup>3</sup>	< 5 %	Scanning distance adjustment	Via potentiometer
Electrical data		Mechanical data	
Operating voltage, +U <sub>B</sub>	10 ... 30V DC <sup>4</sup>	Dimensions	50 x 50 x 17 mm
No-load current, I <sub>0</sub>	≤ 70 mA <sup>5</sup>	Enclosure rating	IP 67 <sup>7</sup>
Output current, I <sub>e</sub>	≤ 200 mA	Material, housing	ABS
Protective circuits	Reverse-polarity protection, U <sub>B</sub> / short-circuit protection (Q)	Material, front screen	PMMA
Protection Class	2	Type of connection	See Selection Table
Power On Delay	≤ 300 ms	Ambient temperature: operation	-20 ... +60 °C
Switching output, Q	PNP/NPN, antivalent (see Selection Table)	Ambient temperature: storage	-20 ... +80 °C
Output function	N.O./N.C. (see Selection Table)	Weight (plug device)	40 g
Switching frequency, f (ti/tp 1:1)	≤ 800 Hz	Weight (cable device)	130 g
Response time	625 μs	Vibration and impact resistance	EN 60947-5-2
Connection, BK	N.O.		
Connection, WH <sup>6</sup>	N.C.		
Contamination output, WH (optional)	N.O. (see Selection Table)		

<sup>1</sup> Reference material: grey, 18 % reflectivity    <sup>2</sup> At scanning distance of 400 mm    <sup>3</sup> 18 % / 18 %    <sup>4</sup> Max. 10 % ripple, within U<sub>B</sub>    <sup>5</sup> At 24V DC    <sup>6</sup> Without contamination output

<sup>7</sup> With connected IP 67 plug

Scanning distance	Switching output	Type of connection	Contamination output	Part number	Article number
150 ... 600 mm	PNP, antivalent	Plug, M12x1, 4-pin	No	FT 50 IH-PAL4	572-51029
150 ... 600 mm	NPN, antivalent	Plug, M12x1, 4-pin	No	FT 50 IH-NAL4	572-51038
150 ... 600 mm	PNP (N.O.)	Plug, M12x1, 4-pin	Yes	FT 50 IH-PSVL4	572-51031
150 ... 600 mm	NPN (N.O.)	Plug, M12x1, 4-pin	Yes	FT 50 IH-NSVL4	572-51058
150 ... 600 mm	PNP, antivalent	Cable, 3 m, 4-wire	No	FT 50 IH-PAK4	572-51032
150 ... 600 mm	NPN, antivalent	Cable, 3 m, 4-wire	No	FT 50 IH-NAK4	572-51037
150 ... 600 mm	PNP (N.O.)	Cable, 3 m, 4-wire	Yes	FT 50 IH-PSVK4	572-51033
150 ... 600 mm	NPN (N.O.)	Cable, 3 m, 4-wire	Yes	FT 50 IH-NSVK4	572-51057



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