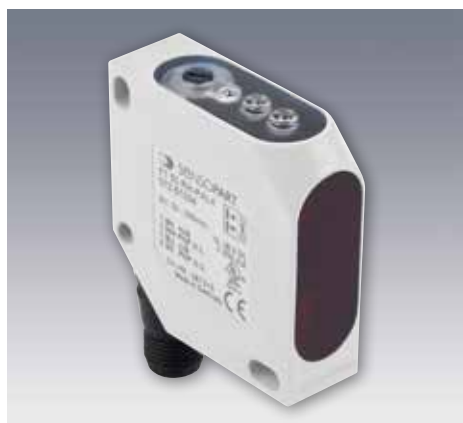


FT 50 IH

Diffuse infrared sensor with background suppression



PRODUCT HIGHLIGHTS

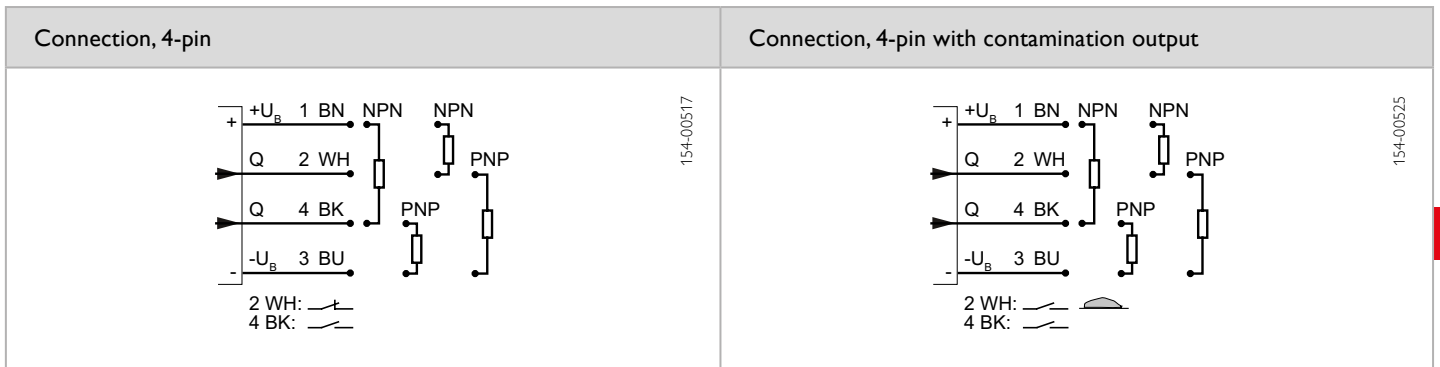
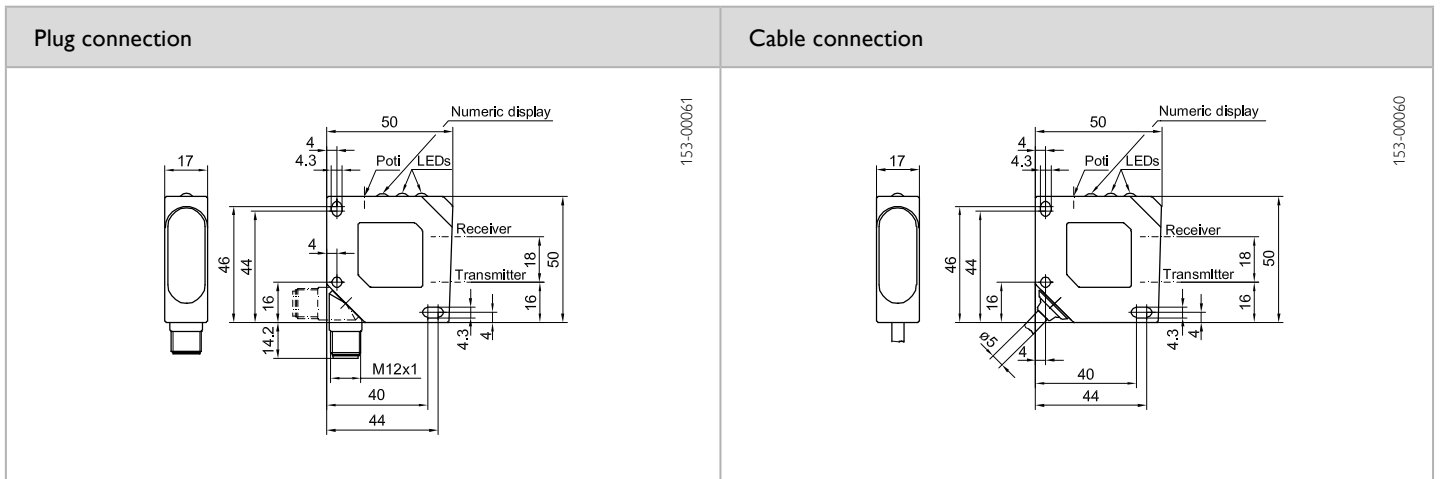
- Long scanning distance of 600 mm
- Precisely adjustable background suppression
- Simple scanning distance adjustment thanks to indicator scale
- Optional contamination output

Optical data		Functions	
Scanning distance	150 ... 600 mm ¹	Indicator LED, green	Operating voltage indicator
Type of light	LED, infrared, 880 nm	Indicator LED, yellow	Switching output indicator
Light spot size ²	20 x 20 mm ²	Indicator LED, red	Contamination indicator
Hysteresis ³	< 5 %	Scanning distance adjustment	Via potentiometer
Electrical data		Mechanical data	
Operating voltage, +U _B	10 ... 30V DC ⁴	Dimensions	50 x 50 x 17 mm
No-load current, I ₀	≤ 70 mA ⁵	Enclosure rating	IP 67 ⁷
Output current, I _e	≤ 200 mA	Material, housing	ABS
Protective circuits	Reverse-polarity protection, U _B / 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 ⁶	N.C.		
Contamination output, WH (optional)	N.O. (see selection table)		

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

⁷ 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