FT 10-RLH

Laser photoelectric proximity sensor with background suppression













PRODUCT HIGHLIGHTS

- Sub-miniature sensor with laser light and adjustable background suppression
- · Precise and reliable switching behaviour, even with varying object surfaces and colours
- Reliable operation even with highly reflective machine parts in the background, thanks to SensoPart ASIC technology
- Particularly suitable for detecting the smallest of parts and for installation in extremely confined spaces

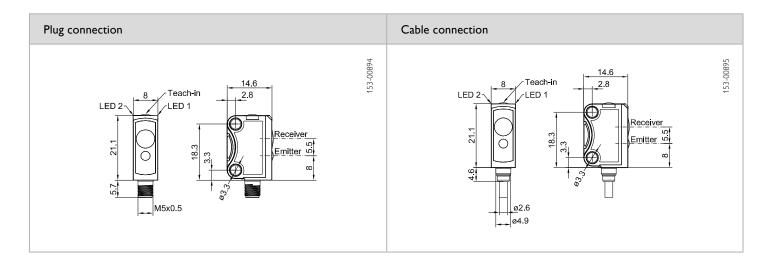
Optical data		Functions		
Scanning distance Adjustment range Type of light Light spot size (total detection area) Laser Class (IEC 60825-1)	6 70 mm ¹ 10 70 mm ¹ Laser, red, 655 nm 1 x 3 mm ²	Indicator LED, green Indicator LED, yellow Scanning distance adjustment Adjustment possibilities Default settings	Operating voltage indicator Switching output indicator Via Teach-in button and control inpu Button lock via control input Max. scanning distance and N.O.	
Electrical data		Mechanical data		
Operating voltage, +U _B	10 30V DC ²	Dimensions	21.1 × 14.6 × 8 mm	
No-load current, I ₀	≤ 12 mA	Enclosure rating	IP 67 ³	
Output current, le	≤ 50 mA	Material, housing	PUR	
Protective circuits	Reverse-polarity protection, U _B / short-circuit protection (Q)	Material, front screen Type of connection	PMMA See Selection Table	
Protection Class	2	Ambient temperature: operation	-20 +50 °C⁴	
Switching output, Q	PNP/NPN (see Selection Table)	Ambient temperature: storage	-20 +80 °C	
Output function	N.O.	Weight (plug device)	Ca. 3 g	
Switching frequency, f (ti/tp 1:1)	≤ 1000 Hz	Weight (cable device)	Ca. 22 g	
Response time	500 μs	Weight (pigtail)	Ca. 10 g	
Control input, IN (only 4-pin design)	$+U_B$ = teach-in $-U_B$ = button locked Open = normal operation			

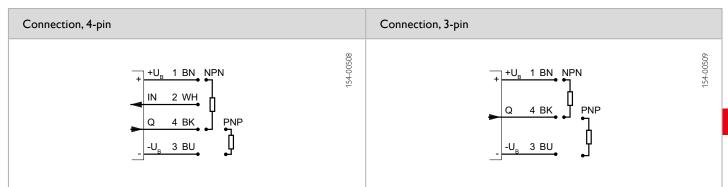
Scanning distance	Switching output	Type of connection	Part number	Article number
6 70 mm	PNP	Plug, M5×0.5, 4-pin	FT 10-RLH-PS-E4	600-11130
6 70 mm	NPN	Plug, M5x0.5, 4-pin	FT 10-RLH-NS-E4	600-11131
6 70 mm	PNP	Cable, 2 m, 4-wire	FT 10-RLH-PS-K4	600-11132
6 70 mm	NPN	Cable, 2 m, 4-wire	FT 10-RLH-NS-K4	600-11133
6 70 mm	PNP	Pigtail, 200 mm with M8 plug, 4-pin	FT 10-RLH-PS-KM4	600-11134
6 70 mm	NPN	Pigtail, 200 mm with M8 plug, 4-pin	FT 10-RLH-NS-KM4	600-11135
6 70 mm	PNP	Pigtail, 200 mm with M8 plug, 3-pin	FT 10-RLH-PS-KM3	600-11146
6 70 mm	NPN	Pigtail, 200 mm with M8 plug, 3-pin	FT 10-RLH-NS-KM3	600-11147
6 70 mm	PNP	Pigtail, 500 mm with M8 plug, 3-pin	FT 10-RLH-PS-KM3-X07	600-11158

Including dovetail clamp mounting MBD F 10 for all types

 $^{^{1}}$ Reference material white, 90 % reflectivity 2 Max. 10 % ripple, within U_B, 2 50 Hz / 100 Hz 3 With connected IP 67 plug 4 UL: -20 ... +30 °C







Reference material	Detection range
White (90 %)	6 70 mm
Grey (18 %)	7 70 mm
Black (6 %)	7 70 mm

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