FS/FE 88-R

Photoelectric through-beam sensor









PRODUCT HIGHLIGHTS

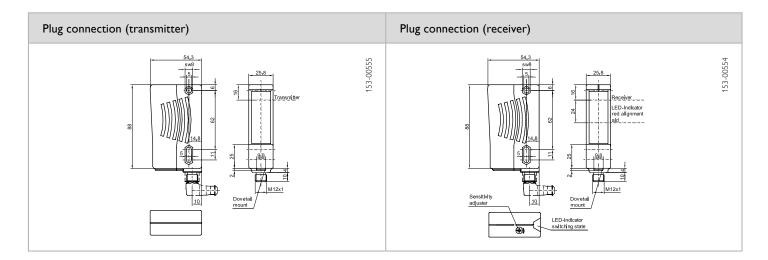
- Antivalent switching output
- Simple alignment thanks to easily visible light spot
- Precise sensitivity adjustment by means of potentiometer
- Contamination output

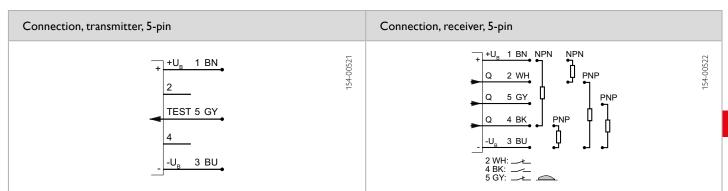
Optical data		Functions	
Operating range	0 30 m	Indicator LED, yellow	Switching output indicator
Type of light	LED, red, 660 nm	Sensitivity adjustment	Via potentiometer
Light spot size ¹	Ø 600 mm	(receiver)	
		Default setting	Max. range
Electrical data		Mechanical data	
Operating voltage, +U _R	10 30 V DC ²	Dimensions	88 × 54.3 × 25.8 mm
No-load current, In (transmitter)	≤ 50 mA	Enclosure rating	IP 67 ⁴
No-load current, In (receiver)	≤ 35 mA	Material, housing	ABS
Output current, le	≤ 200 mA	Material, front screen	PMMA
Protective circuits	Reverse-polarity protection, U _B / short-circuit protection (Q)	Type of connection	See selection table
		Ambient temperature: operation	-40 +60 °C
Protection Class	2	Ambient temperature: storage	-40 +75 °C
Power On Delay	≤ 300 ms	Weight (plug device) ⁵	140 g
Switching output, Q	PNP/NPN antivalent (see selection table)	Vibration and impact resistance	EN 60947-5-2
Output function	N.O./N.C.		
Switching frequency, f (ti/tp 1:1)	≤ 1000 Hz		
Response time	500 μs		
Connection, BK	N.O.		
Connection,WH	N.C.		
Contamination output, Gy (receiver / optional)	N.C.		
Control input, Test (transmitter)	$+U_B = Test (transmitter off)^3$ $-U_B / Open = normal operation$		

 $^{^{1}}$ At range of 30 m 2 Max, 10 % ripple, within U $_{B}$ 3 I $_{max}$ < 3 mA at 30 V DC 4 With connected IP 67 plug 5 Sensor pair

Operating range	Switching output	Type of connection	Part number	Article number
0 30 m 0 30 m 0 30 m	PNP NPN	Plug, M12x1, 5-pin Plug, M12x1, 5-pin Plug, M12x1, 5-pin	FE 88-R-PAV-L5 FE 88-R-NAV-L5 FS 88-R-L5	822-21010 822-21011 822-11004







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