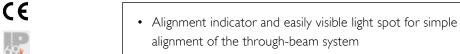
FS/FE 55-R

Photoelectric through-beam sensor



Toll Free Phone (877) SERV098 www.electromate.com sales@electromate.com

PRODUCT HIGHLIGHTS



- Test input to check sensor pair function
- Sensor adjustment via teach-in and control input
- Plug and cable connection rotatable



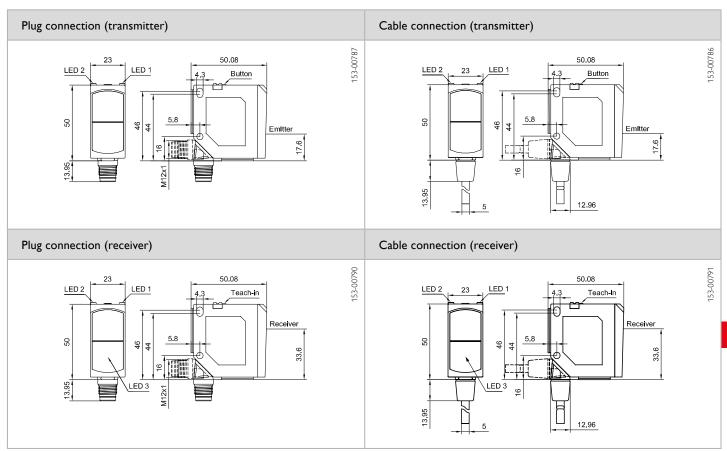


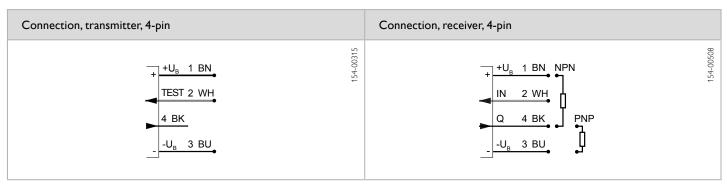
Optical data		Functions		
Limit range Operating range Type of light Light spot size	0 25 m 0 20 m LED, red, 640 nm See diagram	Indicator LED, green Indicator LED, yellow Indicator LED, red (receiver) Sensitivity adjustment (receiver) Teach-in modes Adjustment possibilities (receiver) Default settings	Operating voltage indicator Switching output indicator / contamination indicator Alignment indicator Via Teach-in button and control input Mode 1: during running process Mode 2: during standing process N.O./N.C. via Teach-in button and control input Button lock via control input Max. range and N.O.	
Electrical data		Mechanical data		
Operating voltage, +U _B	10 30 V DC¹ ≤ 30 mA	Dimensions Enclosure rating	50 × 50.1 × 23 mm IP 69K & IP 67 ²	
Output current, le Protective circuits	≤ 100 mA Reverse-polarity protection, U _B / short-circuit protection (Q)	Material, front screen Type of connection	PC-ABS PMMA See selection table	
Protection Class Power On Delay Switching output, Q	2 < 300 ms PNP/NPN (see selection table)	Ambient temperature: operation Ambient temperature: storage Weight (plug device)	-20 +60 °C³ -20 +80 °C 35 g	
Output function Switching frequency, f (ti/tp 1:1) Response time	N.O./N.C. ≤ 500 Hz 1 ms	Weight (cable device) Vibration and impact resistance	125 g EN 60947-5-2	
Control input, IN (receiver)	+U _B = teach-in -U _B = button locked Open = normal operation			
Control input, TEST (transmitter)	+U _B = Test (transmitter off) -U _B / Open = normal operation			

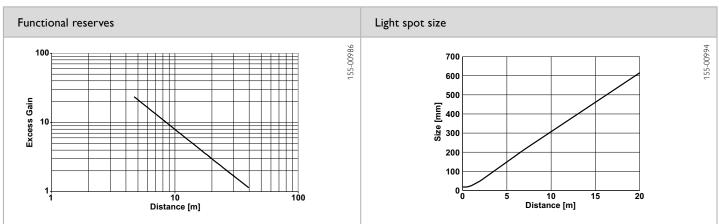
 $^{^{1}}$ Max. 10 % ripple, within U $_{\mathrm{BI}}$ \sim 50 Hz / 100 Hz 2 With connected IP 67 / IP 69K plug 3 UL: max. +45 $^{\circ}$ C

Operating range	Switching output	Type of connection	Part number	Article number
0 20 m	PNP	Plug, M12×1, 4-pin	FE 55-R-PS-L4	620-21000
0 20 m	NPN	Plug, M12x1, 4-pin	FE 55-R-NS-L4	620-21001
0 20 m	_	Plug, M12x1, 4-pin	FS 55-R-L4	620-11000
0 20 m	PNP	Cable, 3 m, 4-wire	FE 55-R-PS-K4	620-21003
0 20 m	NPN	Cable, 3 m, 4-wire	FE 55-R-NS-K4	620-21004
0 20 m	_	Cable, 3 m, 4-wire	FS 55-R-K4	620-11001









Accessories					
Connection cables	www.sensopart.com/en/accessories	Brackets	www.sensopart.com/en/accessories		