

Opto Proximity Switches

SIMATIC PXO500

L50 HF, L50HF advanced type of construction

Overview

Cubic molded plastic enclosure, IP67, connection with M12 connector

Visible laser light (red), laser protection class 2 according to EN 60947-5-2

Diffuse sensor with analog output, parameterizable using teach-in buttons

Resolution < 0.1 % of full-scale value

Two digital channels, can be set as 2 switching outputs or 1 switching output and one trigger input

Rated operating voltage 24 V DC

Electronic inputs or outputs, pnp

Analog output 4 to 20 mA (scaling can be set)

Supplied without mounting material

Technical specifications


Operating mode

Laser diffuse sensor with analog output



Sensing range	mm	30 ... 100	80 ... 300
Resolution	%/MBE	< 0.1	
Linearity	%/MBE	< 0.25	
Light spot diameter (at end of sensing range)	mm	1.5 x 3.25	2 x 4.5
Operating voltage range (DC)	V	18 ... 30	
No-load current I_0 , max.	mA	40	
Analog output	mA	4 ... 20	
Output current per switching output	mA	100	
Recommended load	W	≤ 500	
Switching frequency	Hz	1000	
Switching time	ms	< 1	
Wavelength (illuminant)	nm	650	
LEDs			
• Ready for operation		Green LED	
• Status display		Red LED	
• Switching state, input/output		LED yellow (2 x)	
• Status display, trigger input		Green LED	
• Object valid		Green LED	
• Timer function active		Green LED	
• Measured value centering active		Green LED	
Enclosure material		Molded plastic (ABS)	
Degree of protection		IP67	
Ambient temperature	°C	-10 ... +60	
Temperature coefficient	%/K	0.02	
Wiring		M12 plug, 8-pole, Type O	
Type		3RG70 56-3NQ00	3RG70 56-3NQ61

Selection and Ordering data

	Operating mode	Sensing range	Illuminant	Wiring	Analog output	Ckt. diag. No.	Order No.	
		mm	nm		mA			
	Laser diffuse sensor with analog output	30 ... 100	650 (red laser light)	M12 plug, 8-pole, Type O	4 ... 20	pnp 20	A 3RG70 56-3NQ00	
	Operating mode L50 HF	Laser diffuse sensor with analog output	80 ... 300	650 (red laser light)	M12 plug, 8-pole, Type O	4 ... 20	pnp 20	A 3RG70 56-3NQ61

Accessories

Mounting bracket for form L50 HF	3RX7 302
Cable plug, shielded, 8 × 0.25 mm ²	A 3RX8 000-0CB81-1GF0

A: Subject to export regulations: AL = N and ECCN = EAR99H

Dimensions

3RG70 56-3NQ..

