

Opto Proximity Switches

SIMATIC PXO500

SIMATIC PXO560 C50

Overview

- Color sensor with three individually adjustable switch outputs
- 3 color ranges can be learned
- Long-term stable and neutral color white-light transmitter LEDs
- 5 tolerance levels selectable
- Sensing range 12 ... 32 mm

- Transparent objects with reflection film detectable
- Trigger function via activation input
- External Teach-in
- Rated operating voltage 24 V DC
- 3 electronic outputs (pnp)

Supplied without mounting material and without reflector

Technical specifications

Operating mode


Color sensor



Operating voltage	12 ... 28 V DC
Max. residual ripple	10 %
Reverse polarity protection, short-circuit protection	Yes
Current consumption during no-load operation	≤ 40 mA at 24 V DC
Switching outputs	Q1 ... Q3, PNP NO contact
Max. output current	100 mA
Max. voltage drop at the switching output	< 2.4 V
Power-up delay	< 300 ms
Switching frequency	500 Hz
Switching status indicator CH1 ... CH3	3 yellow LEDs
Operating voltage indicator	Green LED
Tolerance level indicator Tol1 ... Tol5	3 red LEDs

Response time	10 ms
Pulse stretching/dropout delay	50 ms
Sensing range for light spot ø4 mm	12 ... 32 mm
Sensing range tolerance for light spot ø4 mm	± 6 mm for mean tolerance
Color resolution tolerance	Adjustable in 5 stages
Illuminant	White light, pulsed
Light spot diameter at a distance of 22 mm	4 mm
Ambient light limit	EN 60947-5-2
Enclosure material	ABS
Degree of protection	IP67
Ambient temperature range	-10 ... +55 °C
Storage temperature range	-20 ... +80 °C
Type of connection	M12 connector, 8-pole
Max. permissible lead length	5 m
Weight	40 g

Selection and Ordering data

Operating mode	Sensing range	Illuminant	Wiring	Switching output	Ckt. diag. No.	Order No.
	mm					
 Color sensor PXO560 with 3 switching outputs	12 ... 32	White light, pulsed	M12 plug, 8-pole, Type O	3 x pnp	17 A	3RG70 50-3NB00

Accessories

- Mounting bracket for form C50
- Cable plug, shielded, 8 x 0.25 mm², 5 m
- Reflection film for detection of transparent objects

- 3RX7302**
- 3RX8000-0CB81-1GF0**
- 3RX7307-0AB00**

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

Dimensions

3RG70 50-3NB00

