

# Opto Proximity Switches

## SIMATIC PXO300

### L20 form

#### Overview

Cubic molded plastic enclosure, IP67  
Connection via cable or M8 connector

Visible laser light (red)  
Laser protection class 2 as per EN 60947-5-2

Diffuse sensor with background suppression  
• Sensing range 3 to 11 cm (adjustable via "teach-in")

Diffuse sensor

- Sensing range 5 to 300 cm (sensitivity adjustable via "teach-in")

Solid-state output pnp

Supplied without mounting accessories and without reflector

#### Technical specifications

Operating mode



**Laser diffuse sensor with background suppression**



**Retroreflective sensor**



Sensing range	cm	3 ... 11 (adjustable)	5 ... 300 (adjustable)
Standard target/reflector	mm	Gray 18 %	Reflector type RL 50
Light spot diameter	mm	1 mm at 300 mm distance	0.7 mm at 100 mm distance
Operating voltage range (DC)	V	10 ... 30	
No-load current $I_0$ , max.	mA	≤ 30	≤ 25
Rated operational current $I_e$	mA	100	
Switching frequency	kHz	1	4
Wavelength (illuminant)	nm	650 (red laser light)	
Indicators			
• Switching status		Yellow LED	
• Surplus light		Green LED	
Enclosure material		Molded plastic (ABS)	
Degree of protection		IP67	
Ambient temperature	°C	-20 ... +60	
Type		3RG74 06-7CH61	3RG74 07-7CH00

#### Selection and Ordering data

	Operating mode	Sensing range cm	Illuminant nm	Wiring	Switching output	Ckt. diag. No.	Order No.
	Diffuse sensor with background suppression	3 ... 11 (adjustable via "teach-in")	650 (laser red)	M8 plug, 4-pole, type B	Light-ON or dark-ON	pnp 14	A <b>3RG74 06-7CH61</b>
	Retroreflective sensor	5 ... 300 (adjustable via "teach-in")	650 (laser red)	M8 plug, 4-pole, type B	Light-ON or dark-ON	pnp 14	A <b>3RG74 07-7CH00</b>

#### Accessories

Mounting bracket for form L20

**3RX7 308-0AA00**

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

#### Dimensions

3RG74 0..-7CH..

