

Overview

Cubic molded plastic enclosure, IP67,
wired with M12 connector

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

Diffuse sensor with analog output, configurable using teach-in
keys

Resolution < 0.1 % of sensing range upper limit

Two digital channels, adjustable as 2 switching outputs or 1
switching output and 1 trigger input

Rated operating voltage 24 V DC

Solid-state inputs or outputs pnp

Analog output 4 to 20 mA (adjustable normalization)

Supplied without mounting accessories

Technical specifications

Operating mode

Laser diffuse sensor with analog output




| | | |
|--|-------|--------------------------|
| Sensing range | mm | 250 ... 750 |
| Resolution | %/MBE | < 0.1 |
| Linearity | %/MBE | < 0.25 |
| Light spot diameter (at end of sensing range) | mm | 2 x 4.5 |
| Operating voltage range (DC) | V | 18 ... 30 |
| No-load supply 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 |
| Indicators | | |
| • Ready for operation | | Green LED |
| • Status display | | Red LED |
| • Switching state, input/output | | Yellow LED (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 | | PBT |
| Degree of protection | | IP67 |
| Ambient temperature | °C | -10 ... +60 |
| Temperature coefficient | %/K | 0.02 |
| Wiring | | M12 plug, 8-pole, type O |
| Type | | 3RG72 56-3NQ00 |

Opto Proximity Switches

SIMATIC PXO600

L80 HF form

Selection and Ordering data

| | Operating mode | Sensing range | Illuminant | Wiring | Analog output | Ckt. diag. No. | Order No. |
|--|---|---------------|-----------------------|--------------------------|---------------|----------------|-----------------------|
| | | mm | nm | | mA | | |
|  <p>Operating mode L80 HF</p> | Laser diffuse sensor with analog output | 250 ... 750 | 650 (red laser light) | M12 plug, 8-pole, type O | 4 ... 20 | pnp 20 A | 3RG72 56-3NQ00 |

| Accessories | | |
|--|---|----------------------------|
| Mounting bracket for form L80 HF | | 3RX7 303 |
| Cable plug, shielded, 8 x 0.25 mm ² | A | 3RX8 000-0CB81-1GF0 |

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

Dimensions

