

LM80IRSDQP-X232 Photoelectric Sensor – Laser Sensor, Diffuse Mode (Triangulation)





Features

LM80IRSDQP-X232 Type ID no. 3809720 Optical data Function Laser-Reflexionslichttaster (Triangulation) Light type Red 655 nm Wavelength Laser class <u>A</u> 2 Optical resolution 0.002 mm Repeatability 0.001 mm Range 40...80 mm Electrical data 10...30 VDC Operating voltage ≤ 62 mA No-load current Short-circuit protection yes Reverse polarity protection yes Communication protocol RS232 Output function NO contact, Analog output Output 2 Analog current Current output 4...20 mA Readiness delay ≤ 2 ms Response time typical < 0.5 ms IO-Link Mechanical data Rectangular, LM Design Dimensions 35.8 x 23.5 x 48.5 mm Stainless steel, 1.4404 (AISI 316L), Grey Housing material

Stainless steel housing

Protection class IP67

Connection via 300 mm cable with connector, M12 × 1, 5-pin

- Laser class 2
- Visible red, 655 nm
- Analog output accuracy: 0.002 mm
- IO-Link accuracy: 0.175 mm
- Range: 40...80 mm
- Operating voltage: 10...30 VDC
- Analog output 4...20 mA
- Serial interface RS232/422

Wiring diagram



Functional principle

The LM laser triangulation sensor is designed to take very precise measurements at short distances. It features a push/pull switching output as well as an analog output. IO-Link communication is supported.

In addition to the indicators on the housing, the optional RSD display and adjustment tool allows you to view the current measured range or the value of the output analog signal on an LCD screen.

Versions with current output are already available. The sensor is connected to the M12 male connector via the cable.



A stainless steel housing with IP67 protection rating completes the package for this compact yet powerful sensor.

Technical data

Lens	acrylic, Plastic
Electrical connection	Cable with connector, M12 × 1, 0.3 m, PVC
Number of cores	5
Ambient temperature	-10+55 °C
Protection class	IP67
Special features	Resistant to chemicals
Power-on indication	LED, Green
Switching state	LED, Yellow
Tests/approvals	
Approvals	CE cULus

Accessories

SMBLML1

3805826 Mounting bracket for mounting LM proximity sensors, right-angled, stainless steel, dimensions WHD: 37x44x20 mm



Accessories



Accessories

