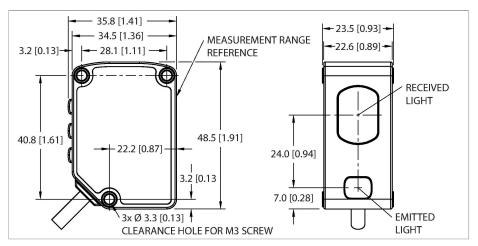


# LM150IRSDQP-X232 Photoelectric Sensor – Laser Sensor, Diffuse Mode (Triangulation)





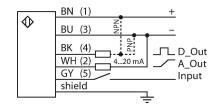
Type	LM150IRSDQP-X232
ID	3809721
Optical data	
Function	Proximity switch
Operating mode	Triangulation
Light type	Red
Wavelength	655 nm
Laser class	<u> </u>
Optical resolution	0.004 mm
Repeatability	0.002 mm
Range	50150 mm
Electrical data	
Operating voltage	1030 VDC
No-load current	≤ 62 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Communication protocol	RS232
Output function	NO contact, Analog output
Output 2	Analog current
Current output	420 mA
Current output Readiness delay	420 mA ≤ 2 ms
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Readiness delay	≤ 2 ms
Readiness delay  Response time typical	≤ 2 ms
Readiness delay  Response time typical  IO-Link	≤ 2 ms
Readiness delay  Response time typical  IO-Link  Mechanical data	≤ 2 ms < 0.5 ms



#### **Features**

- 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: 0,004 mm
- ■IO-Link accuracy: 0.2 mm
- Range: 50...150 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.



### Technical data

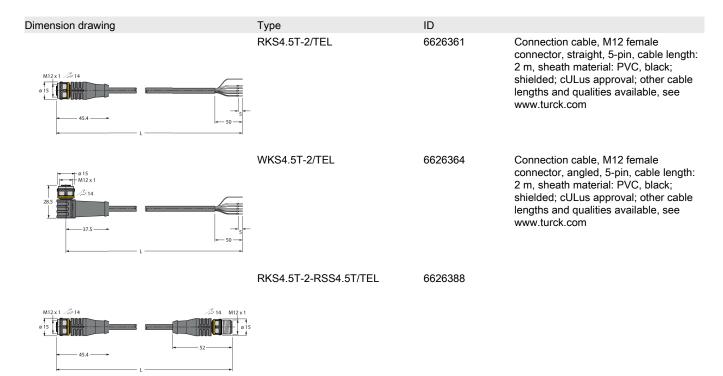
Housing material	Stainless steel, 1.4404 (AISI 316L), Grey
Lens	acrylic, Plastic
Electrical connection	Cable with connector, M12 × 1, 0.3 m, PVC
Number of cores	5
Ambient temperature	-10+55 °C
Protection class	IP67
Special features	Resistant to chemicals
Power-on indication	LED, Green
Switching state	LED, Yellow
Tests/approvals	
Approvals	CE cULus

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

### Accessories

SMBLML1	3805826
	Mounting bracket for mounting LM proximity sensors, right-angled, stainless steel, dimensions WHD: 37x44x20 mm

#### Accessories





## Accessories

