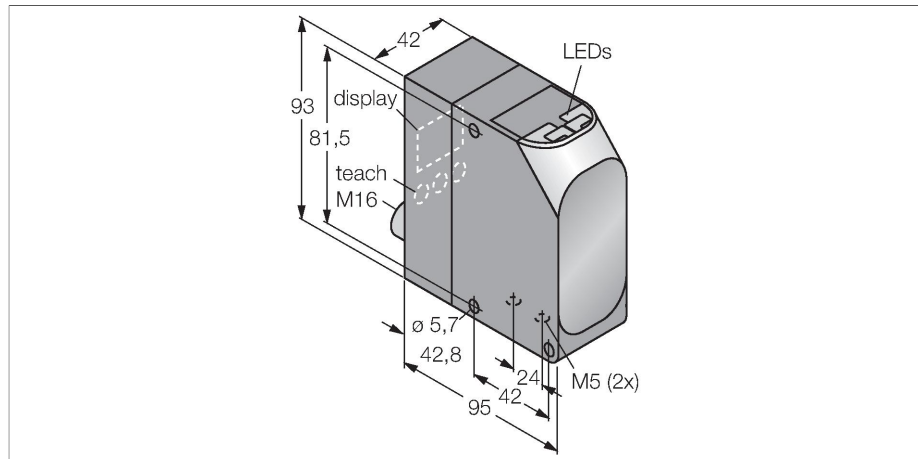


LT7PIDQ

Photoelectric Sensor – Diffuse Mode Sensor

Laser Running Time Meter



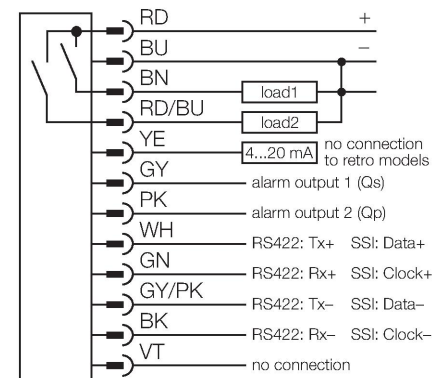
Features

- Male M16 x 0.75, 12-pin
- Indication of signal intensity
- Laser class 1, infrared, 900 nm
- Alignment aid during programming, laser class 2, visible red, 650 nm
- LCD display
- Operating voltage: 18...30 VDC
- Hysteresis and measuring range are independently adjustable
- Edge of the analog output invertible
- Alarm output
- Serial interface RS422 or SSI compatible

Technical data

Type	LT7PIDQ
ID	3073439
Optical data	
Function	Proximity switch
Operating mode	Time-of-Flight
Light type	IR
Wavelength	900 nm
Laser class	▲ 1
Repeatability	8 mm
Range	500...10000 mm
Electrical data	
Operating voltage	18...30 VDC
Residual ripple	< 10 % U _{ss}
Short-circuit protection	yes
Communication protocol	RS422 SSi
Output function	2 normally open contact, PNP/Analog output
Type of analog output	4...20 mA
Current output	4...20 mA
Switching frequency	≤ 400 Hz
Response time typical	< 12 ms
Mechanical data	
Design	Rectangular, LT7
Dimensions	95 x 42 x 93 mm
Housing material	Plastic, ABS, Black

Wiring diagram



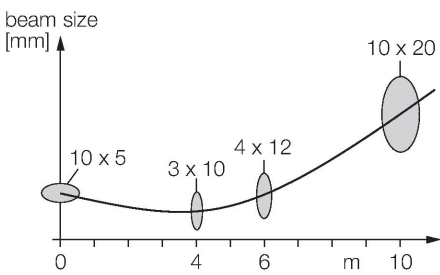
Functional principle

The LT7 uses pulsed time-of-flight technology and is equipped with an IR measuring laser (laser class 1) and a visible red pilot laser (laser class 2) as an alignment aid. The laser pulses one million times per second. The microprocessor records the time required for each pulse to travel to the object and back to the sensor. Every millisecond, one thousand pulse times are averaged and the corresponding value is transferred to the output.

Technical data

Lens	plastic, Acrylic
Electrical connection	Connector, M12 × 1, PVC
Number of cores	12
Ambient temperature	-10...+50 °C
Storage temperature	-30...+75 °C
Protection class	IP67
Special features	Laser Pushbutton
Power-on indication	LED, Green
Switching state	LED, Yellow
Tests/approvals	
Approvals	CE

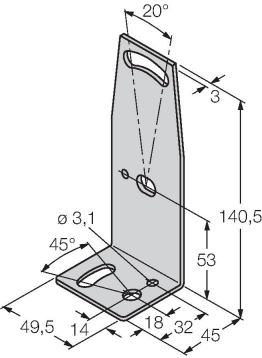
Diagram



Accessories

SMBLT7F	3073712
Mounting accessories for SMBLT7, for fine adjustment of the LT7, cold rolled steel	

SMBLT7	3073711
Mounting bracket, stainless steel, for LT7	



Accessories

Dimension drawing	Type	ID	
	MQDC-1210RA	3074028	Anschlusskabel, Kupplung, abgewinkelt, M16 x 0.75, 12-polig, Länge: 3.05 m, PVC
	MQDC-1210ST	3074174	Anschlusskabel, Kupplung, gerade, M16 x 0.75, 12-polig, Länge: 3.05 m, PVC