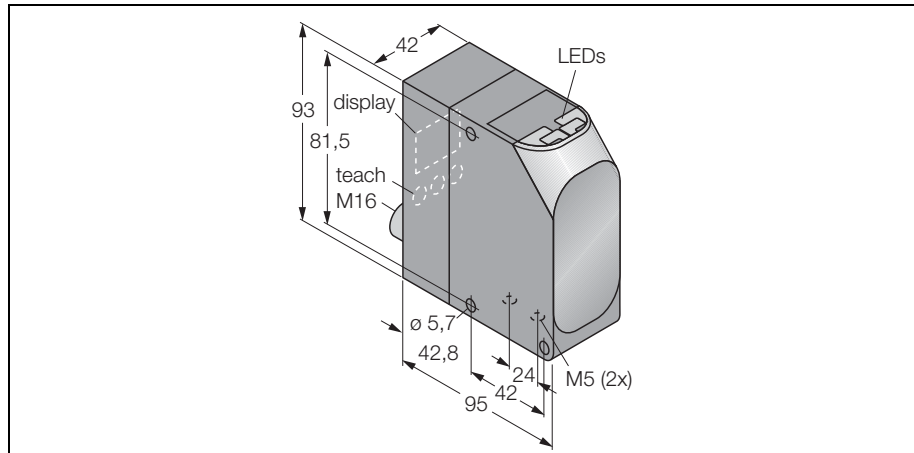


photoelectric sensor

laser sensor with switching output and SSI interface

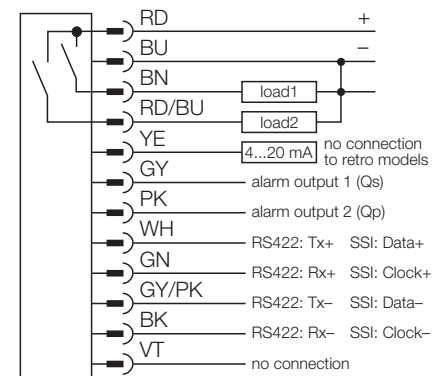
LT7PLVQ



Type	LT7PLVQ
Ident-No.	3073440
Operating mode	Retroreflective laser sensor (time-of-flight)
Light type	IR
Wavelength	900 nm
Laser class	1 (EN 60825, IEC 60825)
Repeatability	4 mm
Range	500... 250000 mm
Ambient temperature	-10...+ 50°C
Operating voltage	18... 30 VDC
DC rated operational current	≤ 150 mA
Output function	2x NO, PNP
Switching frequency	≤ 400Hz
Housing	rectangular, LT7
Dimensions	95x 42x 93mm
Housing material	Plastic, ABS
Lens	plastic, acrylic
Electrical connection	Connectors, M16
Protection class	IP67
Operating voltage	LED green
Switching state	LED yellow

- sensing range of opposed mode laser sensor up to 250 m (to reflector)
- recommended reflector: BRT-250
- switching and measuring range independently adjustable
- Operating voltage 18...30 VDC
- connection via M16 connector, recommended cable: MQDC-1230ST
- signal strength indication

Wiring diagram



Functional principle

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

Diagram

