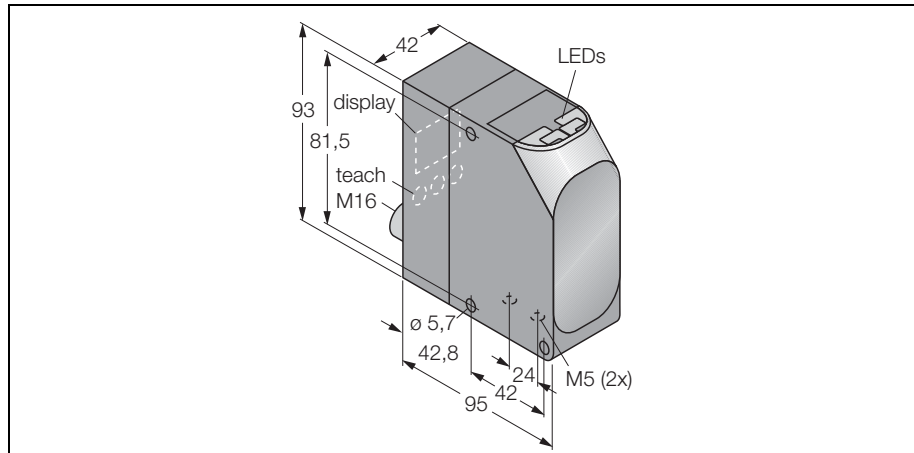


photoelectric sensor

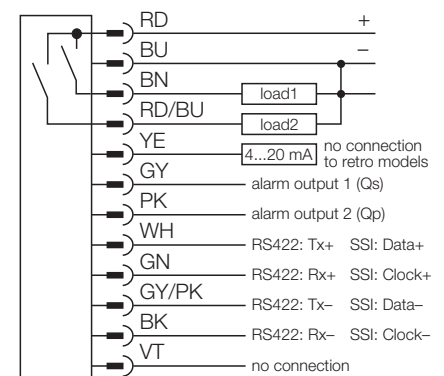
laser sensor with switching and analogue output and SSI interface

LT7PIDQ



- diffuse mode laser sensor with 10 m sensing range
- switching and measuring range independently adjustable
- invertible edge of the analogue output
- Operating voltage 18...30 VDC
- connection via M16 connector, recommended cable: MQDC-1230ST
- signal strength indication

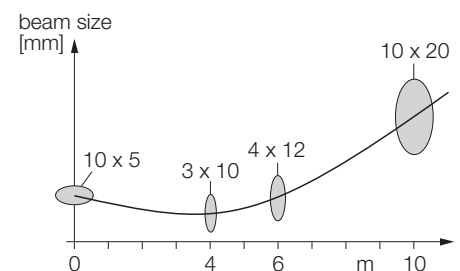
Wiring diagram



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



Type	LT7PIDQ
Ident-No.	3073439
Operating mode	Diffuse mode laser sensor (time-of-fly) with adjustable background suppression
Light type	IR
Wavelength	900 nm
Laser class	1 (EN 60825, IEC 60825)
Repeatability	8 mm
Range	500... 10000 mm
Ambient temperature	-10...+ 50°C
Operating voltage	18... 30 VDC
DC rated operational current	≤ 150 mA
Output function	2x NO, PNP/analog output
current output	4... 20 mA
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