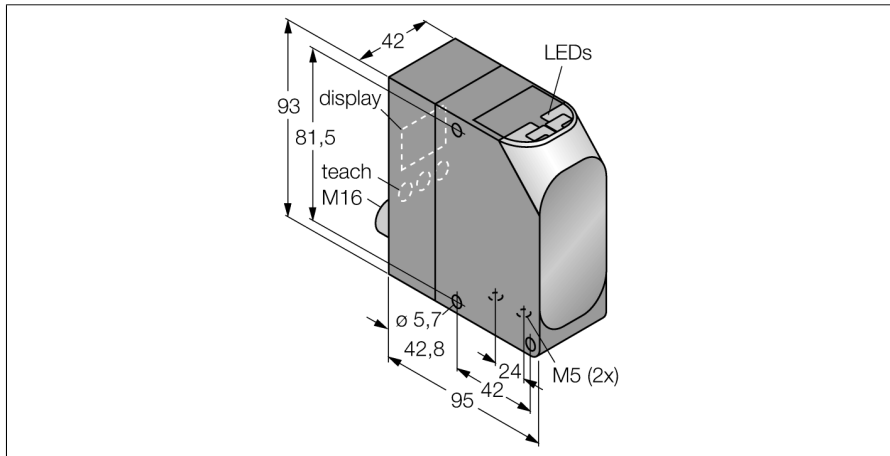
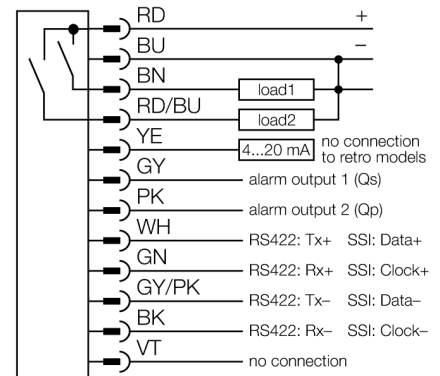


**Photoelectric sensor  
retroreflective sensor  
laser running time meter  
LT7PLVQ**



- Male M16 x 0.75, 12-pin
- Indication of signal intensity
- Alignment aid, laser class 2, visible red
- LCD display
- Operating voltage: 18...30 VDC
- Two independently adjustable switching outputs
- Alarm output
- Serial interface RS422 or SSI compatible

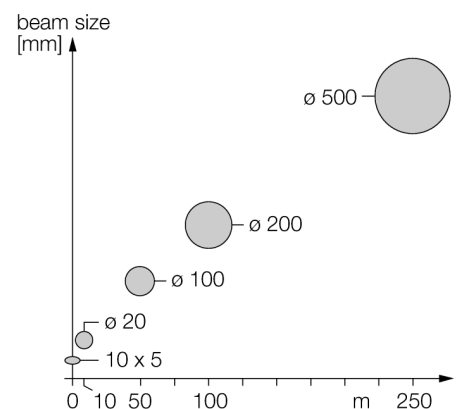
**Wiring diagram**



**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 millisecond, one thousand pulse times are averaged and the corresponding value is transferred to the output.

**Diagram**



<b>Type code</b>	LT7PLVQ
Ident no.	3073440
<b>Operating mode</b>	Retroreflective laser sensor (time-of-flight)
Light type	IR
Wavelength	900 nm
Laser class	▲ 1
Repeatability	4 mm
Range	500...250000 mm
Ambient temperature	-10...+50 °C
<b>Operating voltage</b>	18...30VDC
Residual ripple	< 10 % U <sub>s</sub>
Short-circuit protection	yes
Output function	2x NO, PNP
Switching frequency	≤ 400 Hz
<b>Design</b>	rectangular, LT7
Dimensions	95 x 42 x 93 mm
Housing material	plastic, ABS, black
Lens	plastic, acrylic
Connection	male, M16
Protection class	IP67
<b>Power-on indication</b>	LED green
Switching state	LED yellow

**Photoelectric sensor  
retroreflective sensor  
laser running time meter  
LT7PLVQ**

**Accessories**

Type code	Ident no.	Description	Dimension drawing
SMBLT7F	3073712	Mounting accessories for SMBLT7, for fine adjustment of the LT7, cold rolled steel	
SMBLT7	3073711	Mounting bracket, stainless steel, for LT3 series	

**Wiring accessories**

Type code	Ident no.	Description	Dimension drawing
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	

**Function accessories**

Type code	Ident no.	Description	Dimension drawing
BRT-250	3073713	Special rectangular reflector for LT7PLVQ sensor, max. range 50 m, aluminium, temperature -20... +50 °C	
BRT-540	3073714	Special rectangular reflector for LT7PLVQ sensor, material aluminium, ambient temperature -20 ... +50 °C	
BRT-700	3073715	Special rectangular reflector for LT7PLVQ sensor, max. range 250 m, aluminium, temperature -20... +50 °C	
BRT-TVHG-8X10P	3069119	Reflective foil, self-adhesive, cuttable, highly reflective, 203 x 254 mm	