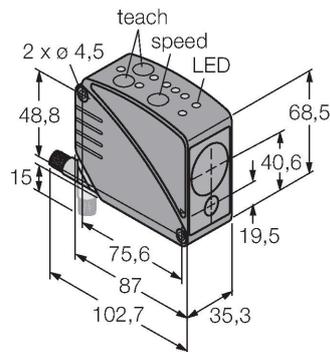


# LT3PULVQ

## Photoelectric Sensor – Retroreflective Sensor

### Laser Running Time Meter



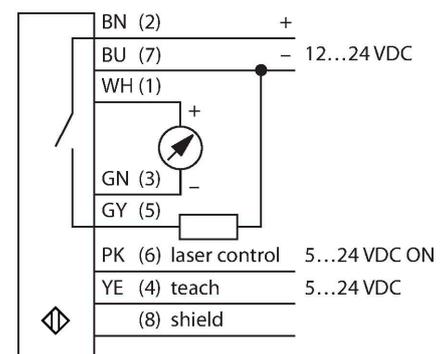
### Features

- Male M12 × 1, 8-pin
- Indication of signal intensity
- Protection class IP67
- BRT-TVHG-8X10P highly reflective foil, incl. in delivery
- Measuring range with according reflector foil: 50 m
- 3 response times adjustable for switching output
- Operating voltage: 12...24 VDC
- Hysteresis and measuring range independently adjustable
- Edge of the analog output invertible

### Technical data

Type	LT3PULVQ
ID no.	3067274
<b>Optical data</b>	
Function	Retroreflective Sensor
Operating mode	Runtime
Reflector included in delivery	yes
Light type	Red
Wavelength	658 nm
Laser class	▲ 1
Repeatability	4.5 mm
Range	500...50000 mm
Ambient light immunity	5000 lux
<b>Electrical data</b>	
Operating voltage	12...24 VDC
Residual ripple	< 10 % U <sub>ss</sub>
DC rated operational current	≤ 100 mA
No-load current	≤ 108 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/Analog output
Type of analog output	0...10 V
Voltage output	0...10 V
Load resistance	≥ 2500 Ω
Switching frequency	≤ 1000 Hz
Readiness delay	≤ 1 s
Readiness delay	≤ 1000 ms

### Wiring diagram



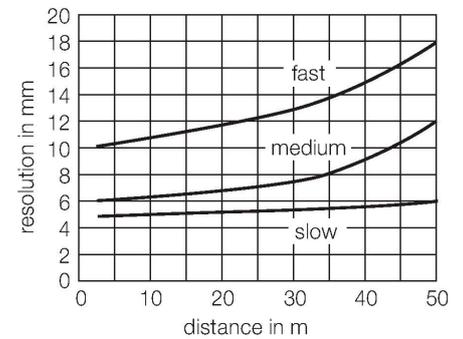
### Functional principle

This distance sensor uses pulsed time-of-flight technology and is thus extremely powerful. 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. The sensor achieves its highest accuracy after a 30-min. warm-up period.

## Technical data

Response time typical	< 1 ms
<b>Mechanical data</b>	
Design	Rectangular, LT3
Dimensions	87 x 35.3 x 68.5 mm
Housing material	Plastic, ABS, Black
Lens	plastic, Acrylic
Electrical connection	Connectors, M12 x 1, PVC
Number of cores	8
Ambient temperature	0...+50 °C
Relative humidity	90 %
Protection class	IP67
Special features	Laser Teach input
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED
Excess gain indication	LED, red
<b>Tests/approvals</b>	
MTTF	15 years acc. to SN 29500 (Ed. 99) 40 °C
Approvals	CE, cURus

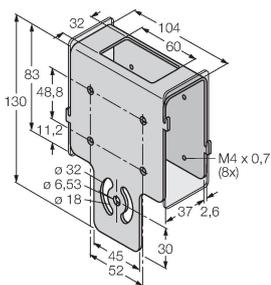
## Resolution in Dependence on Distance



## Accessories

SMBAMSLT3IP

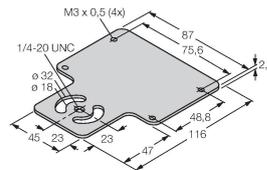
3073442



Protective housing with safety glass panel, for LT3 series

SMBAMSLT3P

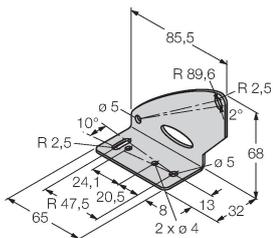
3073132



Backplane, stainless steel, for LT3 series

SMBLT31

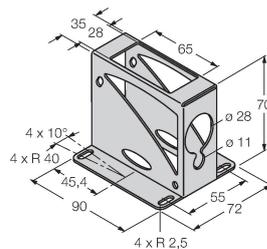
3068505



Mounting bracket, stainless steel, for LT3 series

SMBLT32

3069236

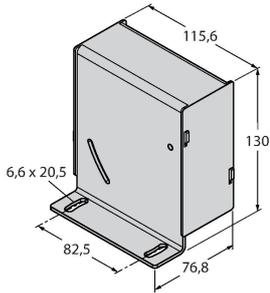


Protective housing, stainless steel, for LT3 series

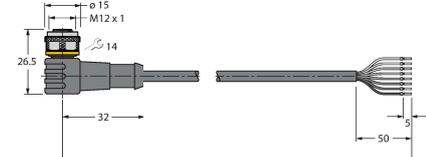
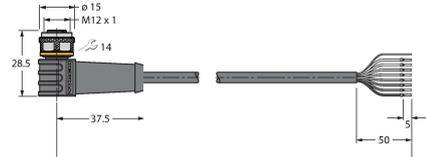
SMBLT3IP

3070973

Protective housing, stainless steel, for LT3 series



**Accessories**

Dimension drawing	Type	ID no.	
	MQDC-806	3057593	Connection cable, PVC, shielded, M12 x 1 female, 8-pin to open end
	RKC8T-2/TEL	6625130	Connection cable, M12 female, straight, 8-pin, cable length: 2 m, jacket material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	WKC8T-2/TEL	6625133	Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com
	RKS8T-2/TEL	6625446	Connection cable, M12 female connector, straight, 8-pin, cable length: 2 m, sheath material: PVC, black; shielded; cULus approval; other cable lengths and qualities available, see www.turck.com
	WKS8T-2/TEL	6625449	Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, sheath material: PVC, black; shielded; cULus approval; other cable lengths and qualities available, see www.turck.com

**Accessories**

Dimension drawing	Type	ID no.	
	BRT-TVHG-8X10P	3069119	Reflective foil, self-adhesive, cuttable, highly reflective, 203 x 254 mm