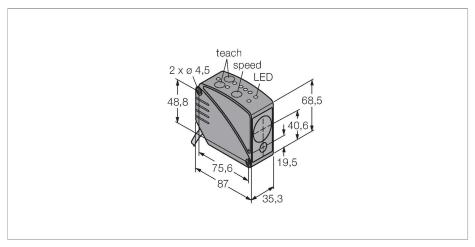


LT3NILV W/30 Photoelectric Sensor – Retroreflective Sensor Laser Running Time Meter



Technical data

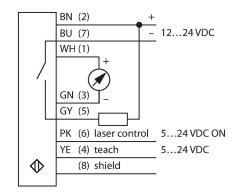
Туре	LT3NILV W/30		
ID	3067284		
Optical data			
Function	Retroreflective Sensor		
Operating mode	Time-of-Flight		
Reflector included in delivery	yes		
Light type	Red		
Wavelength	658 nm		
Laser class	<u></u> 1		
Repeatability	4.5 mm		
Range	50050000 mm		
Ambient light immunity	5000 lux		
Electrical data			
Operating voltage	1224 VDC		
Residual ripple	< 10 % U _{ss}		
DC rated operational current	≤ 100 mA		
No-load current	≤ 108 mA		
Short-circuit protection	yes		
Reverse polarity protection	yes		
Output function	NO contact, NPN/Analog output		
Type of analog output	420 mA		
Current output	420 mA		
Load resistance	≤ 1000 Ω		
Switching frequency	≤ 1000 Hz		
Readiness delay	≤ 1 s		
Readiness delay	≤ 1000 ms		



Features

- Cable, 7-wire, 9 m
- ■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

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

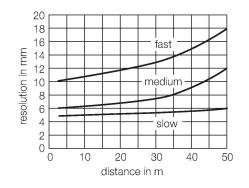
Technical data

Response time typical	< 1 ms		
Mechanical data			
Design	Rectangular, LT3		
Dimensions	87 x 35.3 x 68.5 mm		
Housing material	Plastic, ABS, Black		
Lens	plastic, Acrylic		
Electrical connection	Cable, 9 m, PVC		
Number of cores	8		
Core cross-section	0.34 mm ²		
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		
Tests/approvals			
MTTF	15 years acc. to SN 29500 (Ed. 99) 40 °C		
Approvals	CE, cURus		

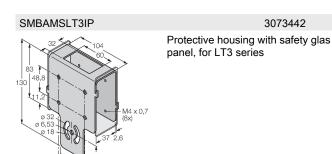
corresponding value is transferred to the output.

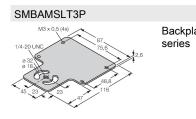
The sensor achieves its highest accuracy after a 30-min. warm-up period.

Resolution in Dependence on Distance

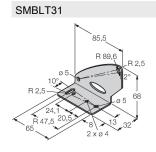


Accessories

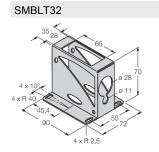




3073132 Backplane, stainless steel, for LT3



3068505 Mounting bracket, stainless steel, for LT3 series



3069236 Protective housing, stainless steel, for LT3 series



3070973

Protective housing, stainless steel, for LT3 series

Accessories

Dimension drawing	Туре	ID	
	BRT-TVHG-8X10P	3069119	Reflective foil, self-adhesive, cuttable, highly reflective, 203 x 254 mm