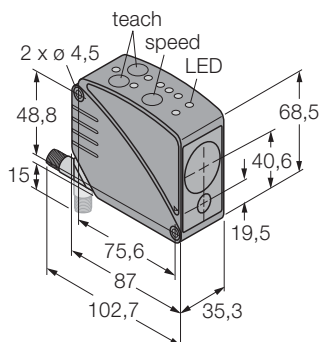


photoelectric sensor

laser sensor with switching and analogue output

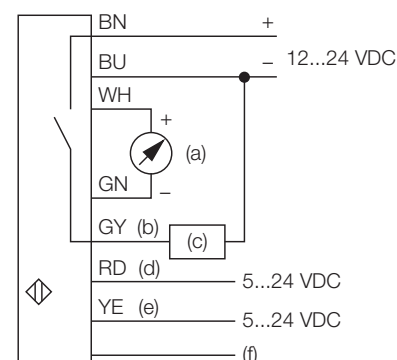
LT3PULVQ



Type	LT3PULVQ
Ident-No.	3067274
Operating mode	Retroreflective laser sensor (time-of-flight)
Light type	red
Wavelength	658 nm
Laser class	1 (EN 60825, IEC 60825)
Repeatability	4.5 mm
Range	500... 50000 mm
Ambient temperature	0...+ 50°C
Operating voltage	12... 24 VDC
DC rated operational current	≤ 100 mA
No-load current I_0	≤ 108 mA
Output function	NO contact, PNP/analog output
voltage output	0... 10 V
Switching frequency	≤ 1 kHz
Readiness delay	≤ 1 s
Housing	rectangular, LT3
Dimensions	87x 35.3x 68.5mm
Housing material	Plastic, ABS
Lens	plastic, acrylic
Electrical connection	Connectors, M12 x 1
Protection class	IP67
Operating voltage	LED green
Switching state	LED yellow

- sensing range of opposed mode laser sensor up to 50 m (to reflector)
- adhesive reflector foil BRT-TVHG-8x10P (203x254 mm) included in scope of supply
- switching and measuring range independently adjustable
- invertible edge of the analogue output
- Operating voltage 12...24 VDC
- signal strength indication

Wiring diagram



Functional principle

The LT3 uses pulsed time-of-flight technology to achieve unsurpassed performance. 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.

Resolution versus distance

