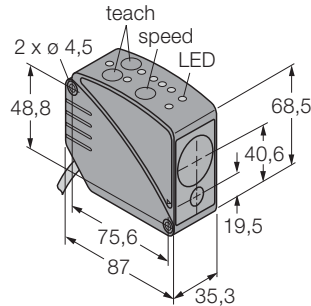


photoelectric sensor
laser sensor with switching and analogue output
LT3PI

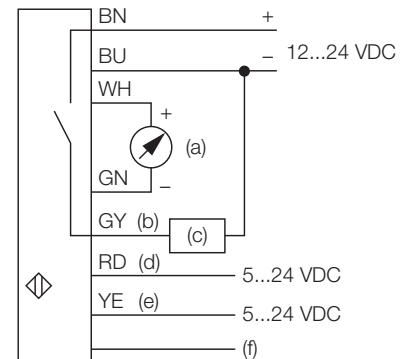
TURCK

Industrial
Automation



- **diffuse mode laser sensor with 5m sensing range**
- **switching and measuring range independently adjustable**
- **invertible edge of the analogue output**

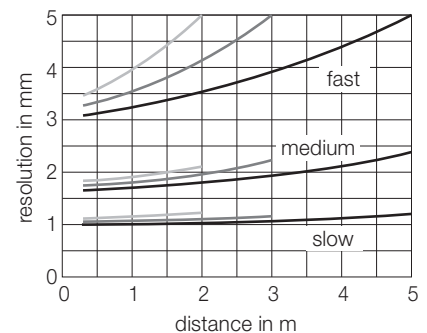
Wiring diagram



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 milli-second, one thousand pulse times are averaged and the corresponding value is transferred to the output.

Resolution versus distance



Type	LT3PI
Ident-No.	3065514
Operating mode	Diffuse mode laser sensor (time-of-fly) with adjustable background suppression
Light type	red
Wavelength	658 nm
Laser class	2 (EN 60825, IEC 60825)
Repeatability	1 mm
Range	300... 5000 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
current output	4... 20 mA
Switching frequency	≤ 1kHz
Readiness delay	≤ 1 s
Housing	rectangular, LT3
Dimensions	87x 35.3x 68.5mm
Housing material	Plastic, ABS
Lens	plastic, acrylic
Electrical connection	cables
Cable length	2 m
Cable cross section:	7 x 0.34mm ²
Protection class	IP67
Operating voltage	LED green
Switching state	LED yellow