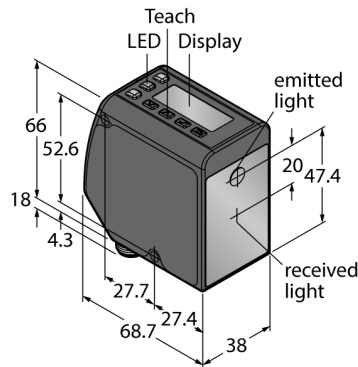
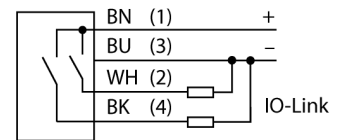


**Photoelectric sensor
Laser Scanning System
LTF12KC2LDQ**



- Transmission of process values and parametrization via IO-link
- 2-line, 8-segment display
- M12 x 1 male connector, rotatable, 5-pin
- Range: 0.05...12 m
- Laser class 2, red, 660 nm, acc. to IEC 60825-1:2007
- Resolution: 0.3...3 mm
- Operating voltage: 12...30 VDC
- 1 x PNP switching output with IO-Link communication

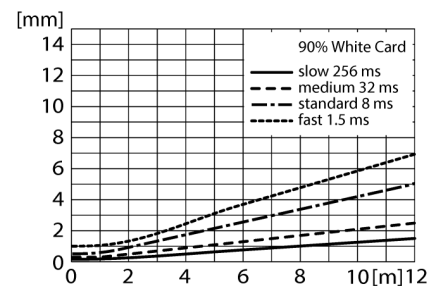
Wiring Diagram



Functional principle

The LTF laser sensors measure the distance to an object up to a range of 12 m. The settings are made via buttons on the housing. The built-in display assists with the menu navigation and serves to display the measured distance. The switching output is reprogrammable and the analog output is, depending on the type, either laid out as current or voltage output. The integrated connector is rotatable by 90° degrees which makes it easy to mount. The transmitter LED can be turned off via the menu or the gray wire (PIN 5). The same wire can be used to operate two devices in the synch mode, which prevents mutual influence. The measuring accuracy can be obtained from the excess gain curve.

Excess Gain Curve



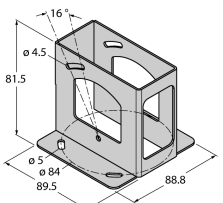
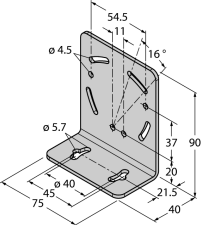
Type designation	LTF12KC2LDQ
Ident no.	3801130
Operating mode	Diffuse mode laser sensor (time-of-flight)
Light type	red
Wavelength	660 nm
Laser class	▲ 2
Optical resolution	3 mm
Repeatability	1.5 mm
Range	50...12000 mm
Ambient temperature	-20...+55 °C
Relative humidity max.	90 %
Storage temperature	-30...+65 °C
Ambient light immunity	> 40000 lux
Operating voltage	12... 30VDC
DC rated operational current	≤ 85 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO/NC , PNP & IO-Link
Switching frequency	≤ 250 Hz
Readiness delay	≤ 2 s
Response time typical	< 1.5 ms
Approvals	CE
Communication Mode	COM 2 (38.4 kBaud)
Process data width	16 bit
Frame type	Type_2_2
Minimum cycle time	2 ms
Function Pin 4	IO-Link
Function Pin 2	DI
Profilunterstützung	Smart Sensor Profil
Construction	rectangular, LTF
Dimensions	77 mm x 26 mm x 56 mm
Housing material	Zinc die-cast, ZN, black
Lens	plastic, polycarbonate
Electrical connection	Flange connector, M12 x 1
Protection class	IP67
Vibration resistance	acc. to IEC 60947-5-2
Shock test	acc. to IEC 60947-5-2
Special features	Synchronization
Power-on indication	LED green
Switching state	LED yellow

**Photoelectric sensor
Laser Scanning System
LTF12KC2LDQ**


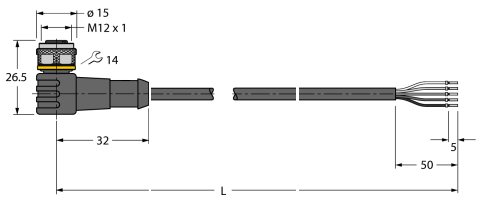
TURCK

Industrial
Automation

Accessories

Type code	Ident no.	Description	
SMBLTFU	3094757	Protective housing, stainless steel, for sensors of the LTF series	
SMBLTFL	3094756	Mounting bracket, rectangular, stainless steel, for sensors of the LTF series	

Wiring accessories

Type code	Ident no.	Description	
RKC4.5T-2/TEL	6625016	Connection cable, female M12, straight, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	
WKC4.5T-2/TEL	6625028	Connection cable, female M12, angled, 5-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com	

Function accessories

Type code	Ident no.	Description	
BL67-4IOL	6827386	4-channel IO-Link Master module for the modular BL67 I/O-system	