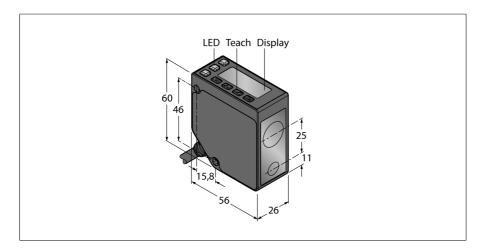


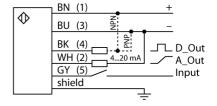
Photoelectric Sensor Diffuse-Mode Laser Sensor (Triangulation) With Analog Output LE250I W/30



Туре	LE250I W/30	
ID	3091688	
	3091000	
Optical data		
Function	Proximity switch	
Operating mode	Triangulation	
Light type	Red	
Wavelength	650 nm	
Laser class	<u> </u>	
Optical resolution	0.2 mm	
Repeatability	0.1 mm	
Range	100400 mm	
Ambient light immunity	10,000 lux	
Electrical data		
Operating voltage U _B	1230 VDC	
DC rated operating current I.	≤ 70 mA	
Short-circuit protection	yes	
Reverse polarity protection	yes	
Output function	NO contact, PNP/NPN	
Output 2	Analog output	
Type of analog output	420 mA	
Current output	420 mA	
Switching frequency	≤ 250 Hz	
Readiness delay	≤ 2 s	
Readiness delay	≤ 2000 ms	
Response time typical	< 2 ms	

- 2-line, 8-segment display
- Cable, PVC, 9 m
- Range: 100...400 mm
- Laser class 2, red, 650 nm, acc. to IEC 60825-1:2007
- Resolution at 100 mm 250 mm distance: < 0.02 mm</p>
- Resolution at 250 mm 400 mm distance:< 0.2 mm
- Operating voltage: 12...30 VDC
- PNP/NPN-switching output, switchable
- Analog output: 4...20 mA

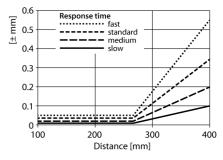
Wiring Diagram



Functional principle

The laser distance sensors of the LE250 Series measure the distance to the object to 400 mm. The devices are set with 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 grey wire (PIN 5). The same wire can be used to operate two devices in the synch mode, which prevents mutual influence. The measuring accuracy is 0.02 mm at a distance of 250 mm and 0.2 mm at a distance of 400 mm.

Excess Gain Curve





Mechanical data		
Design	Rectangular, LE250	
Housing material	Metal, Zinc Alloy Die-Cast, Black	
Lens	plastic, Polycarbonate	
Electrical connection	Cable, 9 m, PVC	
Number of cores	5	
Ambient temperature	-20+55 °C	
Storage temperature	-30+65°C	
Protection class	IP67	
Special features	keep/defer	
Power-on indication	LED, Green	
Switching state	LED, Yellow	
Tests/approvals		
Approvals	CE, cULus listed	



Accessories

Type code	Ident no.		Dimension drawing
SMBLEL	3086754	Mounting bracket, rectangular, stainless steel, for side mounting of LE250/550 sensors	2,8 15,4 15,4 15,4 10,0 1
SMBLEFA	3088226	Mounting bracket, rotatable, stainless steel, for sensors of the LE250/550 series	15,4 60 46 23 2,8 3/16-16 UNC 43,8
SMBLEU	3086755	Protective housing, stainless steel, for sensors of the LE250/550 series	69.5 10.6 10.6 46.7 68 68 63.8