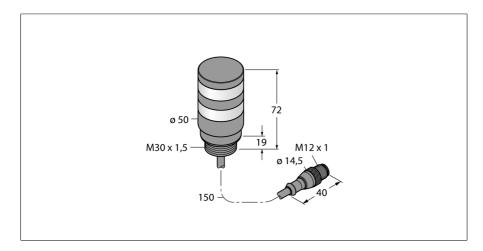


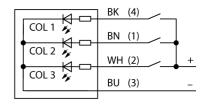
LED Signal Light Tower Light TL50BLYR1CQP



Signal and display data Purpose LED indicator light Function Tower light Light type Yellow Red, rotating Dimmable No Features of color 1 Yellow, Permanently on, 15 Im Features of color 2 Red, Rotating, 24 Im Electrical data Operating voltage Us 1230 VDC DC rated operating current I, ≤ 125 mA Operating voltage Us 2127VAC AC rated operational current ≤ 100 mA Max. current consumption per color 125 mA Input type Bipolar (PNP/NPN) Response time typical < 1 ms Mechanical data Cascadable No Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class Provals CE, UL listed	Туре	TL50BLYR1CQP	
Purpose LED indicator light Function Tower light Light type Yellow Red, rotating No Features of color 1 Yellow, Permanently on, 15 Im Features of color 2 Red, Rotating, 24 Im Electrical data Operating voltage U, DC rated operating current I, ≤ 125 mA Operating voltage U, 2127VAC AC rated operational current ≤ 100 mA Max. current consumption per color 125 mA Input type Bipolar (PNP/NPN) Response time typical < 1 ms	ID	3095125	
Purpose LED indicator light Function Tower light Light type Yellow Red, rotating No Features of color 1 Yellow, Permanently on, 15 Im Features of color 2 Red, Rotating, 24 Im Electrical data Operating voltage U, DC rated operating current I, ≤ 125 mA Operating voltage U, 2127VAC AC rated operational current ≤ 100 mA Max. current consumption per color 125 mA Input type Bipolar (PNP/NPN) Response time typical < 1 ms			
Function Tower light Light type Yellow Red, rotating Dimmable No Features of color 1 Yellow, Permanently on, 15 Im Features of color 2 Red, Rotating, 24 Im Electrical data Operating voltage U _n 1230 VDC DC rated operating current I _n ≤ 125 mA Operating voltage U _n 2127VAC AC rated operational current ≤ 100 mA Max. current consumption per color 125 mA Input type Bipolar (PNP/NPN) Response time typical < 1 ms Mechanical data Cascadable No Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 x 1, 0.15 m, PVC Number of cores Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67	Signal and display data		
Light type Yellow Red, rotating Dimmable No Features of color 1 Yellow, Permanently on, 15 Im Features of color 2 Red, Rotating, 24 Im Electrical data Operating voltage U ₀ 1230 VDC DC rated operating current I ₀ ≤ 125 mA Operating voltage U ₀ 2127VAC AC rated operational current ≤ 100 mA Max. current consumption per color 125 mA Input type Bipolar (PNP/NPN) Response time typical < 1 ms Mechanical data Cascadable No Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67	Purpose	LED indicator light	
Red, rotating	Function	Tower light	
Dimmable No Features of color 1 Yellow, Permanently on, 15 Im Features of color 2 Red, Rotating, 24 Im Electrical data Operating voltage Ua 1230 VDC DC rated operating current Ia ≤ 125 mA Operating voltage Ua 2127VAC AC rated operational current ≤ 100 mA Max. current consumption per color 125 mA Input type Bipolar (PNP/NPN) Response time typical < 1 ms Mechanical data Cascadable No Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67 Tests/approvals	Light type	Yellow	
Features of color 1 Yellow, Permanently on, 15 Im Features of color 2 Red, Rotating, 24 Im Features of color 2 Red, Rotating, 24 Im Red, Rotating, 24 I		Red, rotating	
Features of color 2 Red, Rotating, 24 Im Electrical data 1230 VDC DC rated operating current I₂ ≤ 125 mA Operating voltage U₂ 2127VAC AC rated operational current ≤ 100 mA Max. current consumption per color 125 mA Input type Bipolar (PNP/NPN) Response time typical < 1 ms	Dimmable	No	
Electrical data Operating voltage Ua 1230 VDC DC rated operating current Ia 1227 VAC AC rated operatinal current 12 100 mA Max. current consumption per color 125 mA Input type Bipolar (PNP/NPN) Response time typical < 1 ms Mechanical data Cascadable No Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67	Features of color 1	Yellow, Permanently on, 15 lm	
Operating voltage U₀ 1230 VDC DC rated operating current I₀ ≤ 125 mA Operating voltage U₀ 2127VAC AC rated operational current ≤ 100 mA Max. current consumption per color 125 mA Input type Bipolar (PNP/NPN) Response time typical < 1 ms	Features of color 2	Red, Rotating, 24 lm	
Operating voltage U₀ 1230 VDC DC rated operating current I₀ ≤ 125 mA Operating voltage U₀ 2127VAC AC rated operational current ≤ 100 mA Max. current consumption per color 125 mA Input type Bipolar (PNP/NPN) Response time typical < 1 ms			
DC rated operating current I₂ ≤ 125 mA Operating voltage U₂ 2127VAC AC rated operational current ≤ 100 mA Max. current consumption per color 125 mA Input type Bipolar (PNP/NPN) Response time typical < 1 ms Mechanical data Cascadable No Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67	Electrical data		
Operating voltage Us 2127VAC AC rated operational current ≤ 100 mA Max. current consumption per color 125 mA Input type Bipolar (PNP/NPN) Response time typical < 1 ms	Operating voltage U _B	1230 VDC	
AC rated operational current △ 100 mA Max. current consumption per color Input type Response time typical Mechanical data Cascadable Design Dimensions Mo Housing material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores Ambient temperature Response time typical ✓ 1 ms No No Design Smooth barrel, TL50BL Ø 50 × 91 mm Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67	DC rated operating current I _e	≤ 125 mA	
Max. current consumption per color Input type Bipolar (PNP/NPN) Response time typical Mechanical data Cascadable Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67	Operating voltage U _B	2127VAC	
Input type Bipolar (PNP/NPN) Response time typical < 1 ms Mechanical data Cascadable No Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67	AC rated operational current	≤ 100 mA	
Response time typical < 1 ms Mechanical data Cascadable No Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67	Max. current consumption per color	125 mA	
Mechanical data Cascadable No Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67	Input type	Bipolar (PNP/NPN)	
Cascadable Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 x 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Tests/approvals	Response time typical	< 1 ms	
Cascadable Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 x 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Tests/approvals			
Design Smooth barrel, TL50BL Dimensions Ø 50 x 91 mm Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67	Mechanical data		
Dimensions Ø 50 x 91 mm Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67	Cascadable	No	
Housing material Plastic, ABS, Grey Window material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67	Design	Smooth barrel, TL50BL	
Window material Polycarbonate, clear Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67 Tests/approvals	Dimensions	Ø 50 x 91 mm	
Electrical connection Cable with connector, M12 × 1, 0.15 m, PVC Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67 Tests/approvals	Housing material	Plastic, ABS, Grey	
Number of cores 4 Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67 Tests/approvals	Window material	Polycarbonate, clear	
Ambient temperature -40+50 °C Relative humidity 095% Protection class IP67 Tests/approvals	Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC	
Relative humidity 095% Protection class IP67 Tests/approvals	Number of cores	4	
Protection class IP67 Tests/approvals	Ambient temperature	-40+50 °C	
Tests/approvals	Relative humidity	095%	
**	Protection class	IP67	
**			
Approvals CE, UL listed	Tests/approvals		
	Approvals	CE, UL listed	

- Plastic housing, gray
- Protection class IP67
- Protection against electromagnetic and high-frequency interference
- Colors: Yellow steady (COL 1) / Red rotating (COL 2)
- Operating voltage: 12...30 VDC or 24 VAC with 45 mA per LED color
- Inputs: PNP/NPN

Wiring Diagram



Functional principle

The rugged multifunction TL50 beacon is available in many variations and is easily mounted. Each signal tower can be assembled from a maximum of four varicolored LEDs, with or without a beeper. You can also choose from three different lighting functions (steady, rotating, flashing). The lighting function is indicated in the type code after the color (no number: steady; 1: rotating; 2: flashing). Clearly visible status displays for indoor and outdoor applications.

The wiring diagram shows a PNP pin assignment.

5 colors are available, blue (B), green (G), red (R), yellow (Y) and white (W), which specify the light sequence from bottom to top in the type designation of the tower light. Example: TL50GYRQ, designates the colors green, yellow and red from bottom to top.



Accessories

Type code	Ident no.		Dimension drawing
SMB30A	3032723	Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread	o 30.5 6,3 wide o 6,3 7,5 R 40 69
SMB30FA	3074005	Montagewinkel; Werkstoff VA 1.4401	78.4. 60.3 19 19 19 19 19 19 10 10 10 10 10 10 10 10 10 10
SMB30SC	3052521	Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable	12.7 M30 x 1.5 50.8 50.8