

# TL50BLG2R2B2ALS LED Indicator – Tower Light

### Technical data

ID       3030727         Signal and display data         Purpose       LED indicator light         Function       Tower light         Light type       Green, flashing Red, flashing Blue, flashing         Dimmable       no         Features of color 1       Green, Flashing, 52 Im         Features of color 2       Red, Flashing, 24 Im         Features of color 3       Blue, Flashing, 16 Im         acoustic signal       Continuous tone, 94 dB         Electrical data       Operating voltage         Operating voltage       2127 VAC         AC rated operational current       \$ 100 mA         Max. current consumption per color       125 mA         Operating voltage       35 mA         Input type       Bipolar (PNP/NPN)         Response time typical       < 1 ms         Mechanical data       Cascadable         Dimensions       Ø 50 x 170.8 x 170.8 mm         Housing material       Plastic, ABS, Black         Window material       Polycarbonate, clear         Electrical connection       Cable, 2 m, PVC         Number of cores       5         Armbient temperature       -20+50 °C         Relative humidity       095 %         Protectio	Туре	TL50BLG2R2B2ALS
PurposeLED indicator lightFunctionTower lightLight typeGreen, flashing Red, flashing Blue, flashing Blue, flashing Blue, flashing, 52 lmFeatures of color 1Green, Flashing, 52 lmFeatures of color 2Red, Flashing, 24 lmFeatures of color 3Blue, Flashing, 16 lmacoustic signalContinuous tone, 94 dBElectrical dataUOperating voltage1230 VDCDC rated operational current≤ 125 mAOperating voltage2127 VACAC rated operational current≤ 100 mAMax. current consumption per color125 mAInput typeBipolar (PNP/NPN)Response time typical< 1 ms	ID	3030727
FunctionTower lightLight typeGreen, flashing Red, flashing Blue, flashing Blue, flashing Blue, flashing, S2 ImDimmablenoFeatures of color 1Green, Flashing, 52 ImFeatures of color 2Red, Flashing, 24 ImFeatures of color 3Blue, Flashing, 16 Imacoustic signalContinuous tone, 94 dBElectrical dataOperating voltage1230 VDCDC rated operational current≤ 125 mAOperating voltage2127 VACAC rated operational current≤ 100 mAMax. current consumption per color125 mAInput typeBipolar (PNP/NPN)Response time typical< 1 ms	Signal and display data	
Light typeGreen, flashing Red, flashing Blue, flashing Blue, flashing Blue, flashing Blue, flashing, 52 lmDimmablenoFeatures of color 1Green, Flashing, 52 lmFeatures of color 2Red, Flashing, 24 lmFeatures of color 3Blue, Flashing, 16 lmacoustic signalContinuous tone, 94 dBElectrical dataOperating voltage1230 VDCDC rated operational current< 125 mA	Purpose	LED indicator light
Red, flashing Blue, flashingDimmablenoFeatures of color 1Green, Flashing, 52 lmFeatures of color 2Red, Flashing, 24 lmFeatures of color 3Blue, Flashing, 16 lmacoustic signalContinuous tone, 94 dBElectrical dataOperating voltage1230 VDCDC rated operational current≤ 125 mAOperating voltage2127 VACAC rated operational current≤ 100 mAMax. current consumption per color125 mAInput typeBipolar (PNP/NPN)Response time typical< 1 ms	Function	Tower light
Features of color 1Green, Flashing, 52 ImFeatures of color 2Red, Flashing, 24 ImFeatures of color 3Blue, Flashing, 16 Imacoustic signalContinuous tone, 94 dBElectrical dataOperating voltage1230 VDCDC rated operational current< 125 mA	Light type	Red, flashing
Features of color 2Red, Flashing, 24 ImFeatures of color 3Blue, Flashing, 16 Imacoustic signalContinuous tone, 94 dBElectrical dataOperating voltage1230 VDCDC rated operational current≤ 125 mAOperating voltage2127 VACAC rated operational current≤ 100 mAMax. current consumption per color125 mAInput typeBipolar (PNP/NPN)Response time typical< 1 ms	Dimmable	no
Features of color 3Blue, Flashing, 16 lmacoustic signalContinuous tone, 94 dBElectrical dataOperating voltage1230 VDCDC rated operational current< 125 mA	Features of color 1	Green, Flashing, 52 Im
acoustic signalContinuous tone, 94 dBElectrical dataOperating voltage1230 VDCDC rated operational current≤ 125 mAOperating voltage2127 VACAC rated operational current≤ 100 mAMax. current consumption per color125 mAInput typeBipolar (PNP/NPN)Response time typical< 1 ms	Features of color 2	Red, Flashing, 24 Im
Electrical dataOperating voltage1230 VDCDC rated operational current≤ 125 mAOperating voltage2127 VACAC rated operational current≤ 100 mAMax. current consumption per color125 mAMax. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)Response time typical< 1 ms	Features of color 3	Blue, Flashing, 16 Im
Operating voltage1230 VDCDC rated operational current< 125 mA	acoustic signal	Continuous tone, 94 dB
DC rated operational current $\leq 125 \text{ mA}$ Operating voltage $2127 \text{ VAC}$ AC rated operational current $\leq 100 \text{ mA}$ Max. current consumption per color $125 \text{ mA}$ Max. current consumption of beeper $35 \text{ mA}$ Input typeBipolar (PNP/NPN)Response time typical $< 1 \text{ ms}$ Mechanical data $Cascadable$ Dimensions $\emptyset 50 \times 170.8 \times 170.8 \text{ mm}$ Housing materialPlastic, ABS, BlackWindow materialPolycarbonate, clearElectrical connectionCable, 2 m, PVCNumber of cores $5$ Ambient temperature $-20+50 \ ^{\circ}C$ Relative humidity $095 \ ^{\circ}$ Protection classIP67Tests/approvals $\Box$	Electrical data	
Operating voltage2127 VACAC rated operational current≤ 100 mAMax. current consumption per color125 mAMax. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)Response time typical< 1 ms	Operating voltage	1230 VDC
AC rated operational current≤ 100 mAMax. current consumption per color125 mAMax. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)Response time typical< 1 ms	DC rated operational current	≤ 125 mA
Max. current consumption per color125 mAMax. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)Response time typical< 1 ms	Operating voltage	2127 VAC
Max. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)Response time typical< 1 ms	AC rated operational current	≤ 100 mA
Input typeBipolar (PNP/NPN)Response time typical< 1 ms	Max. current consumption per color	125 mA
Response time typical< 1 msMechanical dataNoCascadableNoDesignSmooth barrel, TL50BLDimensionsØ 50 x 170.8 x 170.8 mmHousing materialPlastic, ABS, BlackWindow materialPolycarbonate, clearElectrical connectionCable, 2 m, PVCNumber of cores5Ambient temperature-20+50 °CRelative humidity095 %Protection classIP67Tests/approvals	Max. current consumption of beeper	35 mA
Mechanical dataCascadableNoDesignSmooth barrel, TL50BLDimensionsØ 50 x 170.8 x 170.8 mmHousing materialPlastic, ABS, BlackWindow materialPolycarbonate, clearElectrical connectionCable, 2 m, PVCNumber of cores5Ambient temperature-20+50 °CRelative humidity095 %Protection classIP67Tests/approvalsIP67	Input type	Bipolar (PNP/NPN)
CascadableNoDesignSmooth barrel, TL50BLDimensionsØ 50 x 170.8 x 170.8 mmHousing materialPlastic, ABS, BlackWindow materialPolycarbonate, clearElectrical connectionCable, 2 m, PVCNumber of cores5Ambient temperature-20+50 °CRelative humidity095 %Protection classIP67Tests/approvals	Response time typical	< 1 ms
DesignSmooth barrel, TL50BLDimensionsØ 50 x 170.8 x 170.8 mmHousing materialPlastic, ABS, BlackWindow materialPolycarbonate, clearElectrical connectionCable, 2 m, PVCNumber of cores5Ambient temperature-20+50 °CRelative humidity095 %Protection classIP67Tests/approvals	Mechanical data	
DimensionsØ 50 x 170.8 x 170.8 mmHousing materialPlastic, ABS, BlackWindow materialPolycarbonate, clearElectrical connectionCable, 2 m, PVCNumber of cores5Ambient temperature-20+50 °CRelative humidity095 %Protection classIP67Tests/approvals	Cascadable	No
Housing materialPlastic, ABS, BlackWindow materialPolycarbonate, clearElectrical connectionCable, 2 m, PVCNumber of cores5Ambient temperature-20+50 °CRelative humidity095 %Protection classIP67Tests/approvals	Design	Smooth barrel, TL50BL
Window materialPolycarbonate, clearElectrical connectionCable, 2 m, PVCNumber of cores5Ambient temperature-20+50 °CRelative humidity095 %Protection classIP67Tests/approvals	Dimensions	Ø 50 x 170.8 x 170.8 mm
Electrical connectionCable, 2 m, PVCNumber of cores5Ambient temperature-20+50 °CRelative humidity095 %Protection classIP67Tests/approvals	Housing material	Plastic, ABS, Black
Number of cores5Ambient temperature-20+50 °CRelative humidity095 %Protection classIP67Tests/approvalsIP67	Window material	Polycarbonate, clear
Ambient temperature-20+50 °CRelative humidity095 %Protection classIP67Tests/approvalsIP67	Electrical connection	Cable, 2 m, PVC
Relative humidity     095 %       Protection class     IP67       Tests/approvals     IP67	Number of cores	5
Protection class IP67 Tests/approvals	Ambient temperature	-20+50 °C
Tests/approvals	Relative humidity	095 %
	Protection class	IP67
Approvals CE, UL listed	Tests/approvals	
	Approvals	CE, UL listed



#### Features

- Black plastic housing
- Protection class IP67
- EMI and RFI immune
- Colors: Green flashing (COL 1) / Red flashing (COL 2) / Blue flashing (COL 3)
- Operating voltage: 12...30 VDC or 24 VAC with 45 mA per LED color
- Inputs: PNP/NPN
- Beeper: Sealed, continuous tone max. 94 dB

## 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

#### SMB30A

SMB30SC

12,7

50,8



66,5

29

58

3032723 Mounting bracket, rectangular, stainless steel, for sensors with 30mm thread

# 3052521

Mounting bracket, PBT black, for sensors with 30 mm thread, rotatable

#### SMB30FA



3074005 Montagewinkel; Werkstoff VA 1.4401