

# TL50GRALS LED Indicator – Tower Light



#### Technical data

ID3016686Signal and display dataLED indicator lightPurposeLED indicator lightFunctionTower lightLight typeGreen RedDimmableNoFeatures of color 1Green, Permanently on, 23 ImFeatures of color 2Red, Permanently on, 7.5 ImAcoustic signalContinuous tone, 94 dBElectrical dataUOperating voltage1830 VDCDC rated operational current≤ 45 mAOperating voltage2127 VACMax. current consumption per color45 mAMax. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)22Response time typical< 10 msMechanical dataVoDesignSmooth barrel, TL50DimensionsØ 50 x 174.8 mm	Туре	TL50GRALS
PurposeLED indicator lightFunctionTower lightLight typeGreen RedDimmableNoFeatures of color 1Green, Permanently on, 23 ImFeatures of color 2Red, Permanently on, 7.5 ImAcoustic signalContinuous tone, 94 dBElectrical data1830 VDCOperating voltage1830 VDCDC rated operational current≤ 45 mAOperating voltage2127 VACMax. current consumption per color45 mAInput typeBipolar (PNP/NPN)22Response time typical< 10 ms	-	3016686
FunctionTower lightLight typeGreen RedDimmableNoFeatures of color 1Green, Permanently on, 23 ImFeatures of color 2Red, Permanently on, 7.5 ImAcoustic signalContinuous tone, 94 dBElectrical dataContinuous tone, 94 dBOperating voltage1830 VDCDC rated operational current< 45 mA	Signal and display data	
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RedDimmableNoFeatures of color 1Green, Permanently on, 23 lmFeatures of color 2Red, Permanently on, 7.5 lmAcoustic signalContinuous tone, 94 dBElectrical dataContinuous tone, 94 dBOperating voltage1830 VDCDC rated operational current≤ 45 mAOperating voltage2127 VACMax. current consumption per color45 mAMax. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)22Response time typical<10 msMechanical dataNoDesignSmooth barrel, TL50DimensionsØ 50 x 174.8 mm	Function	Tower light
Features of color 1Green, Permanently on, 23 lmFeatures of color 2Red, Permanently on, 7.5 lmAcoustic signalContinuous tone, 94 dBElectrical dataI830 VDCOperating voltage1830 VDCDC rated operational current≤ 45 mAOperating voltage2127 VACMax. current consumption per color45 mAInput typeBipolar (PNP/NPN)22Response time typical< 10 ms	Light type	
Features of color 2Red, Permanently on, 7.5 lmAcoustic signalContinuous tone, 94 dBElectrical dataOperating voltage1830 VDCDC rated operational current< 45 mA	Dimmable	No
Acoustic signalContinuous tone, 94 dBElectrical dataI830 VDCOperating voltage1830 VDCDC rated operational current≤ 45 mAOperating voltage2127 VACMax. current consumption per color45 mAMax. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)22Response time typical< 10 ms	Features of color 1	Green, Permanently on, 23 Im
Electrical dataOperating voltage1830 VDCDC rated operational current≤ 45 mAOperating voltage2127 VACMax. current consumption per color45 mAMax. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)22Response time typical< 10 ms	Features of color 2	Red, Permanently on, 7.5 Im
Operating voltage1830 VDCDC rated operational current≤ 45 mAOperating voltage2127 VACMax. current consumption per color45 mAMax. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)22Response time typical< 10 ms	Acoustic signal	Continuous tone, 94 dB
DC rated operational current< 45 mAOperating voltage2127 VACMax. current consumption per color45 mAMax. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)22Response time typical< 10 ms	Electrical data	
Operating voltage2127 VACMax. current consumption per color45 mAMax. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)22Response time typical< 10 ms	Operating voltage	1830 VDC
Max. current consumption per color45 mAMax. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)22Response time typical< 10 ms	DC rated operational current	≤ 45 mA
Max. current consumption of beeper35 mAInput typeBipolar (PNP/NPN)22Response time typical< 10 ms	Operating voltage	2127 VAC
Input typeBipolar (PNP/NPN)22Response time typical< 10 ms	Max. current consumption per color	45 mA
Response time typical< 10 msMechanical dataCascadableNoDesignSmooth barrel, TL50DimensionsØ 50 x 174.8 mm	Max. current consumption of beeper	35 mA
Mechanical data   Cascadable No   Design Smooth barrel, TL50   Dimensions Ø 50 x 174.8 mm	Input type	Bipolar (PNP/NPN)22
CascadableNoDesignSmooth barrel, TL50DimensionsØ 50 x 174.8 mm	Response time typical	< 10 ms
DesignSmooth barrel, TL50DimensionsØ 50 x 174.8 mm	Mechanical data	
Dimensions Ø 50 x 174.8 mm	Cascadable	No
	Design	Smooth barrel, TL50
Lauring material Direction ADC Direct	Dimensions	Ø 50 x 174.8 mm
Housing material Plastic, ABS, Black	Housing material	Plastic, ABS, Black
Window material Polycarbonate, diffuse	Window material	Polycarbonate, diffuse
Electrical connection Cable, 2 m, PVC	Electrical connection	Cable, 2 m, PVC
Number of cores 4	Number of cores	4



#### Features

Plastic housing, black

EMI and RFI immune

- Protection class IP67
- Cable, 2 m
- Multicolor: Green (COL 1) / Red (COL 2)
- Operating voltage: 18...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 TL50 tower lights provide highly visible status indicators and a clear user guidance within the entire system. They can be assembled from varicolored LEDs and are available with or without beeper. You can mount them directly on machines, in the cabinet or in locations to be monitored within the production lines.

The wiring diagram shows a PNP pin assignment.

There are 10 colors available blue (B), green (G), red (R), yellow (Y), white (W), turquoise (T), orange (O), violet (V), sky blue (S) and magenta (M), which specify the light sequence from bottom to top in the type code of the tower light. Example: TL50GYRQ, colors green, yellow and red arranged from bottom to top.



## Technical data

Ambient temperature	-20+50 °C
Relative humidity	095 %
Protection class	IP67
Tests/approvals	
Approvals	CE, UL listed