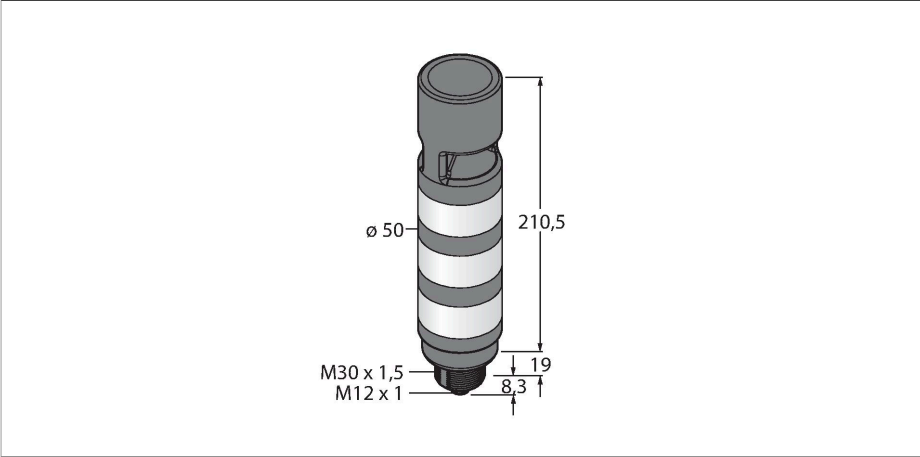


# TL503AOSIKQ

## LED Signal Light – Tower Light



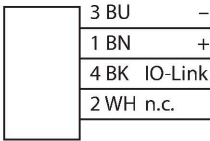
### Technical data

Type	TL503AOSIKQ
ID	3805001
Signal and display data	
Purpose	LED indicator light
Function	Tower light
Light type	RGB
Dimmable	Programmable
Features of color 1	RGB, Programmable
Acoustic signal	Continuous tone with adjustable intensity, 95 dB
Electrical data	
Operating voltage $U_B$	18...30 VDC
DC rated operating current $I_o$	≤ 45 mA
Operating voltage $U_B$	21...27 VAC
Max. current consumption per color	100 mA
Max. current consumption of beeper	45 mA
Communication protocol	IO-Link
Input type	Communication protocol
Response time typical	< 20 ms
IO-Link	
IO-Link specification	V 1.1
Communication mode	COM 2 (38.4 kBaud)
Process data width	16 bit
Frame type	Type_2_2
Function pin 4	IO-Link
Maximum cable length	20 m
Included in the SIDI GSDML	Yes

### Features

- Plastic housing, black
- EMI and RFI immune
- Protection class IP67
- M12 x 1 male
- Flexible display with RGB LEDs
- Control of user-defined or predefined light colors
- Flashing function, alternation, two-colored display and intensity check
- Control and parametrization exclusively via IO-Link
- Beeper: Omnidirectional, sealed, continuous tone with adjustable intensity max. 95 dB

### Wiring diagram



### Functional principle

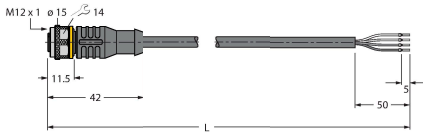
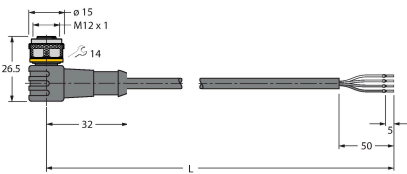
The TL50 Pro IO-Link tower lights provide highly visible status displays and clear user guidance throughout the entire system. Each tower light is assembled from RGB LED elements and is available with or without beeper. They are ready to use in just a few steps and can be mounted directly on machines, on the switch cabinet or in locations to be monitored within production lines. The corresponding RGB LEDs are parameterized via an IO-Link interface. This allows predefined colors and user-defined colors within the RGB color space to be controlled, with or without lighting animations. The lighting animations include a flashing function, intensity check, rotation, alternation and two-colored displays. Compared with the

Technical data

Mechanical data	
Cascadable	No
Design	Smooth barrel, TL50
Dimensions	Ø 50 x 237.9 mm
Housing material	Plastic, ABS, Black
Window material	Polycarbonate, diffuse
Electrical connection	Connector, M12 × 1, PVC
Number of cores	4
Ambient temperature	-20...+50 °C
Relative humidity	0...95 %
Protection class	IP67
Tests/approvals	
Approvals	CE, UL listed

standard TL50 variants, the TL50 Pro IO-Link tower lights allow a variety of models to be implemented using just one display.

Accessories

Dimension drawing	Type	ID	
	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval