

Data Sheet
Diffuse Line Lighting

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vision technology

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Technical alterations without notice

ZL-Serie/GB/250/AVT/02.04

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Diffuse Line Lighting ZL-Series

The line lightings of the ZL-series offer an industrial-conform and flexible solution for CCD line camera applications in transmitted and incident light operations. The modules are easy to install. Their operation only requires a 24 VDC power supply. The LED lightings are available in light field lengths of 150, 300, 450 and 900 mm as well as in the light colours red and infrared. Other lengths and light colours can be delivered on request.

Fields of Application:

- ▶ Transmitted and incident light lightings for line cameras and line sensors in industrial environments.

Features and Benefits:

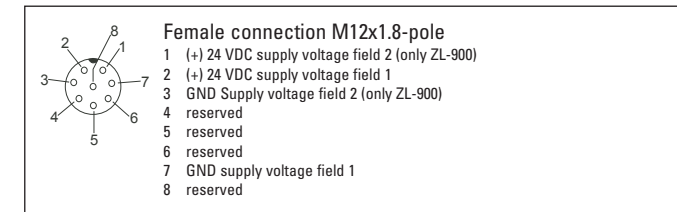
- ▶ Easy mounting and connection
- ▶ Integrated power control with overvoltage protection
- ▶ Long life limit at constant brightness by High-performance-LEDs
- ▶ Industry-qualified design:
 - shock-insensitive
 - polarity-safe
 - splash-proof
- ▶ Low heat development
- ▶ Small room requirement
- ▶ Continuous light operation



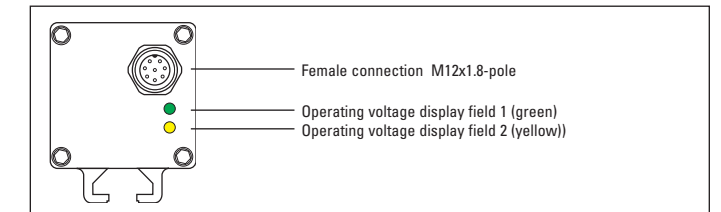
Technical Data

general data				
power supply	24 VDC ± 30%			
homogeneity of distribution of brightness	Better ± 10%			
average life limit	50.000 h			
max. deviation from the optical axis	±40°			
protection class	IP65			
operating temperature	0°C ... 50°C			
storage temperature	-20°C ... 70°C			
humidity	5% ... 95%, non-condensing			
housing material	aluminium, black anodized			
window material	PMMA			
connection	1 female connection M12x1 (8-pole)			
mounting	2 sliding blocks M5 (variable distance)			
LED IR (875 nm)				
type	ZU -150	ZLI-300	ZLI-450	ZU -900
lighting field size	150x 14mm	300x14 mm	450x14 mm	900x14 mm
dimensions (LxWxH)	184x38.5x47.5 mm	334 x 38.5 x 47.5 mm	484 x 38.5 x 47.5 mm	934x38.5x47.5 mm
weight	305g	525 g	745 g	1490g
power input	4.8 W	9.6 W	14.4 W	28.8 W
LED red (630 nm)				
type	ZLR-150	ZLR-300	ZLR-450	ZLR -900
lighting field size	150x14mm	300x14 mm	450x14 mm	900x14 mm
dimensions (LxWxH)	184x38.5x47.5 mm	334 x 38.5 x 47.5 mm	484 x 38.5 x 47.5 mm	934x38.5x47.5 mm
weight	305g	525 g	745 g	1490g
power input	1,7 W	3,4 W	5,1 W	10,2 W

Contact Assignment



LED-Displays



Order Information

Designation	Short Description
	Line lightings
ZLI-150	Diffuse line lighting, IR, 150 mm
ZLI-300	Diffuse line lighting, IR, 300 mm
ZLI-450	Diffuse line lighting, IR, 450 mm
ZLI-900	Diffuse line lighting, IR, 900 mm
ZLR-150	Diffuse line lighting, red, 150 mm
ZLR-300	Diffuse line lighting, red, 300 mm
ZLR-450	Diffuse line lighting, red, 450 mm
ZLR-900	Diffuse line lighting, red, 900 mm
ZLW-xx	Diffuse line lighting, white, on request
	Cable
AK8-763-FC-5m	Cable with female connector 8-pole type M12x1 straight, 5 m
	Scope of delivery
	Line lighting (without connecting cable)

Dimensions

