

Vision sensors in the right light



External LED illumination for sophisticated object recognition

- Homogeneous and virtually shadow-free illumination of the object
- Permanent light or pulse operation with the option of additional high light intensity
- White light, red light and infrared versions
- Compact design and robust, industrially compatible housing
- Combination with a diffuser attachment possible for “cloudy day” illumination



Sophisticated object recognition

The high-quality LED illumination creates homogeneous light – either for virtually shadow-free object illumination or for emphasising surface characteristics such as dot-peened codes, scratches or nicks.

They are available as M12 connector versions with visible white, red or invisible infrared light.

Practical accessories

A diffuser attachment made of high-quality glass for the ring lights additionally ensures homogeneous illumination without disturbing reflections in applications with reflective surfaces in the close range.

The optional angle bracket and the tried-and-tested ifm mounting system facilitate the alignment of the different types of additional illumination.





Dimensions [mm]	Active lighting source size [Ø mm]	Current consumption [mA]	Angle of aperture	Protection	Pigtail, 0.3 m	Order no.
Ring light, red light 617 nm						
Ø 122 x 20.5	Ø 106 / Ø 66	800 / 1300*	60°	IP 65	•	O2D915
Ring light, infrared light 875 nm						
Ø 122 x 20.5	Ø 106 / Ø 66	800 / 1400*	50°	IP 65	•	O2D917
Ring light, white light 5600 K						
Ø 122 x 20.5	Ø 106 / Ø 66	800 / 1200*	120°	IP 65	•	O2D919
Bar illumination unit red light 617 nm						
116 x 18 x 13	10 x 75	225 / 375*	60°	IP 65	•	O2D921
200 x 18 x 13	10 x 150	460 / 700*	60°	IP 65	•	O2D924
Bar illumination unit infrared light 875 nm						
116 x 18 x 13	10 x 75	185 / 325*	50°	IP 65	•	O2D922
200 x 18 x 13	10 x 150	415 / 640*	50°	IP 65	•	O2D925
Bar illumination unit white light 5600 K						
116 x 18 x 13	10 x 75	165 / 275*	120°	IP 65	•	O2D923
200 x 18 x 13	10 x 150	265 / 475*	120°	IP 65	•	O2D926
Dark field illumination red light 617 nm						
155 x 130 x 10	Ø 90	400	–	IP 54	•	O2D920

Automatic deactivation at a housing temperature of 65 °C.

* current consumption at high light intensity

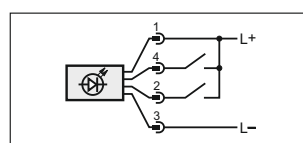
Accessories

Type	Description	Order no.
	Diffuser for ring light	E2D202
	Mounting kit for ring light	E2D201
	Mounting kit for bar illumination unit	E2D114
	Mounting kit for 4 bar illumination units 10 x 75 mm	E2D116
	Mounting kit for dark field illumination	E2D115

Common technical data

Light source	LED
Operating voltage [V]	24 DC
Ambient temperature [°C]	-10...55
Material housing	aluminium anodised
Material optical area	glass
Trigger [V]	5...24, PNP
Protected against reverse polarity	•
Short-circuit proof	•
Fixing	M4 screws
Eye safety	IEC 62471


Wiring diagram



Pigtail: 4 trigger
2 high light intensity

No high
light intensity for
O2D920

Connection technology

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC001
	Socket, M12, 5 m black, PUR cable	EVC002