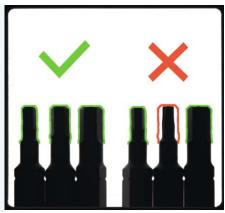




Ultra-flat backlight for vision sensors



Bit detection using a backlight

Illumination units



Powerful permanent light for contour and position verification

Longer life through pulse operation

Homogeneous illumination with red or infrared light

Space-saving installation – only 9.8 mm overall height

Three different illuminated area sizes available

Industrially-compatible M12 connector







Perfect illumination

These powerful backlights create homogeneous light, ensuring optimal, shadow-free illumination of the objects to be inspected. The outer contours are strongly highlighted by the background illumination and can be optimally analysed by a vision sensor. The sensor verifies contours and positions rapidly and reliably. The backlight can be operated in permanent or pulsed mode. In addition to many other advantages, this especially results in a longer life of the unit.

Ultra-flat design

Due to its extremely flat design with an overall height of only 9.8 mm, ifm's new generation of backlights allows for a very space-saving installation. Optional mounting sets ensure quick and easy fastening.



Туре	Active illuminated area	Current consumption	Length	Width	Height	Weight	Order no.	
	[mm]	[mA]	[mm]	[mm]	[mm]	[g]		
Backlight - Light colour red 617 nm								
	25 x 25	< 80	70.5	33.4	9.5	58	O2D940	
	50 x 50	< 205	105	81	9.8	160	O2D942	
38	100 x 100	< 410	155	133	9.8	347	O2D944	
Backlight · Light colour infrared 875 nm								
	25 x 25	< 95	70.5	33.4	9.5	58	O2D941	
	50 x 50	< 325	105	81	9.8	160	O2D943	
200	100 x 100	< 620	155	133	9.8	347	O2D945	

Туре	Description	Order no.				
Mounting accessories						
•	Mounting set for backlight 25 x 25 mm					
9	Mounting set for backlight 50 x 50 mm	E2D108				
	Mounting set for backlight 100 x 100 mm	E2D109				
	Connection piece for clamps, stainless steel	E21076				
. 5	Clamp, stainless steel, Ø 12 mm	E21110				
	Rod, 150 mm, Ø 12 mm, stainless steel	E21111				
	Rod, 200 mm, Ø 12 mm, stainless steel	E21112				
	Rod, 300 mm, Ø 12 mm, stainless steel	E21113				
Wiring diag	gram					
3 4	M12 connector Pin 1: 24 V DC Pin 2: N.C. Pin 3: 0 V Pin 4: on / trigger					
ifm – c	lose to you!					

Further technical data							
Operating voltage	[V DC]	24					
Trigger	[V DC]	524					
Protection rating, protection class		IP 54, III					
Ambient temperature	[°C]	-1050					
Connection		Connection cable 0.3 m, PUR with M12 connector, gold-plated contacts					
Housing materials	Anodised aluminium, illuminated area: glass						

Homogeneity

In industrial imaging applications, the use of backlights is essential to ensure fast and reliable object recognition. Especially with flat lighting concepts, creating a homogeneous illuminated area poses a challenge.

The new powerful backlights from ifm improve the lighting of application backgrounds. This results in shorter exposure times of industrial cameras and reduces the influence of extraneous light.

