LED dome – the right illumination makes it possible

Homogeneous light in four different colours
Two colour combinations selectable: white/infrared or cyan/red
Two illuminated area sizes
Four lighting segments can be controlled separately
Permanent light or pulse operation with 4 times more light
No external control unit necessary

Application
Many objects, such as aluminium bags, blister packages or curved metal surfaces with printed, dot-peened or punched codes have difficult reflecting properties. Dome illumination provides a remedy. The integrated LEDs radiate into the dome from below. Due to the diffuse reflection under the dome, the result is an evenly lit surface, comparable to the light conditions on a cloudy day.

If standard illumination is used, however, direct reflection on the object may lead to halation (hot spot), similar to the reflection of sunlight on a cloudless day. The homogeneous illumination guarantees reliable monitoring or identification results even in case of reflective objects with complicated shapes. The light colour and the four lighting segments can be selected via the pushbutton module or externally.
We reserve the right to make technical alterations without prior notice. · 11.2018

Mounting set
E2D117

Operational voltage [V DC] 24 ± 10 %

Protection rating, protection class IP65, III

Ambient temperature [°C] -10...40

Socket, M12, 2 m black, PUR cable, 5-pole
EVC070

Socket, M12, 2 m black, PUR cable, 8-pole
E11950

Type | Description | Order no.
--- | --- | ---
LED dome | Light spot diameter [Ø mm] | Width [mm] | Height [mm] | Operating principle | Light colour | Order no.
--- | --- | --- | --- | --- | --- | ---
M12 connector | 80 | 136 | 193 | 75 | indirect light | white / infrared | O2D930
| 80 | 136 | 193 | 75 | indirect light | cyan / red | O2D931
| 130 | 197 | 257 | 107 | indirect light | white / infrared | O2D932
| 130 | 197 | 257 | 107 | indirect light | cyan / red | O2D933

Accessories

Type | Description | Order no.
--- | --- | ---
Mounting accessories
Mounting set | E2D117
Clamp for mounting rod Ø 12 mm, stainless steel | E21110
Connection piece for clamps, stainless steel | E21076
Cube for mounting on an aluminium profile, M10 thread, diecast zinc | E20951
Rod, 100 mm, Ø 12 mm, M10 thread, stainless steel | E20938
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

Socket, M12, 2 m black, PUR cable, 5-pole
EVC070

Socket, M12, 2 m black, PUR cable, 8-pole
E11950

Further technical data

Operating voltage [V DC] | 24 ± 10 %
Maximum flash frequency [Hz] | 310
Trigger | external, 24 V PNP
Overload protection | •
Protection rating, protection class | IP65, III
Ambient temperature [°C] | -10...40
Operating status indications | operation LED, illuminated state LED
Housing material | aluminium, ABS

Dimensions

Example O2D930

For further technical details please visit: ifm.com