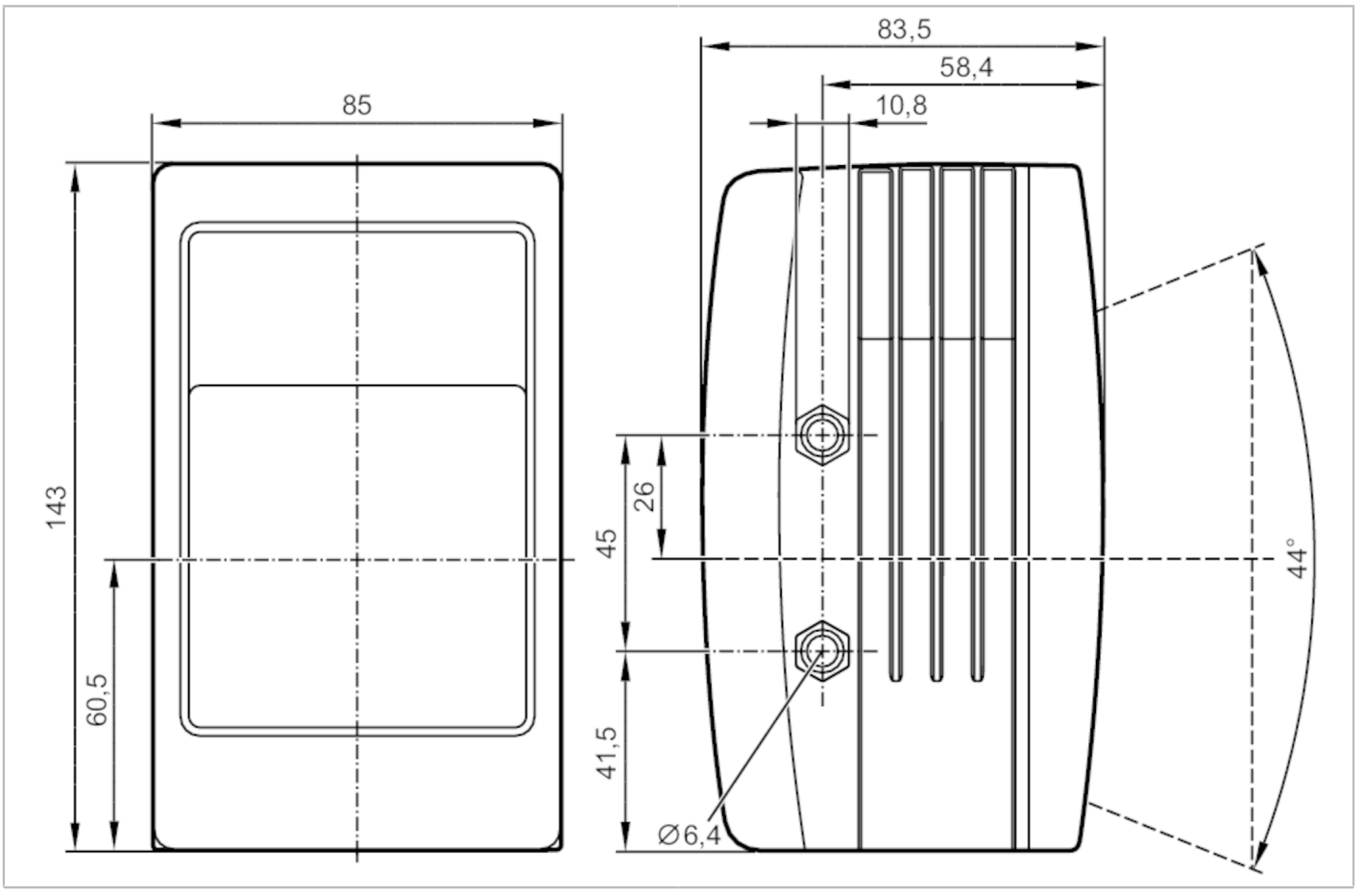
O3M970

IR illumination unit

O3MIOOKG/GM/97



Product characteristics		
Type of light		infrared light
Angle of aperture	[°]	97 x 44
Image repetition frequency 3D	[Hz]	25 / 33 / 50
Electrical data		
Operating voltage	[V]	9...32 DC
Current consumption	[mA]	< 5000
Power consumption	[W]	45
Protection class		III
Type of light		infrared light
Wave length	[nm]	850
Detection zone		
Angle of aperture	[°]	97 x 44
Image repetition frequency 3D	[Hz]	25 / 33 / 50
Software / programming		
Parameter setting options		via PC and O3M271 / O3M171 with ifm Vision Assistant

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Interfaces			
Communication interface		MCI	
Operating conditions			
Ambient temperature	[°C]	-40...85	
Note on ambient temperature		with high image repetition frequency of 25 Hz	
Storage temperature	[°C]	-40...105	
Protection		IP 67; IP 69K; (with mounted connectors or protective caps)	
Tests / approvals			
EMC		DIN EN 61000-6-4	industrial environments
		DIN EN 61000-6-2	industrial environments
Shock resistance		DIN EN 60068-2-27	30 g / 6 ms bump
Vibration resistance		DIN EN 60068-2-6	10 g / 10...500 Hz swept sine
		DIN EN 60068-2-64	10...1000 Hz noise
Photobiological safety		risk group 1; (DIN EN 62471)	
Electrical protection		DIN EN 61010-2-201	electric shock / electrical supply only via PELV circuits
MTTF	[years]	78	
Mechanical data			
Weight	[g]	1416.9	
Dimensions	[mm]	143 x 85 x 83.5	
Materials		housing: diecast aluminium; disc: polycarbonate	
Remarks			
Remarks		The illumination unit is required for the operation of the sensor.	
		Only use original ifm cables to connect sensor and illumination unit.	
Pack quantity		1 pcs.	

Electrical connection

Connector: 1 x M12; coding: A

1	GND
2	9...32 V
3	9...32 V
4	GND