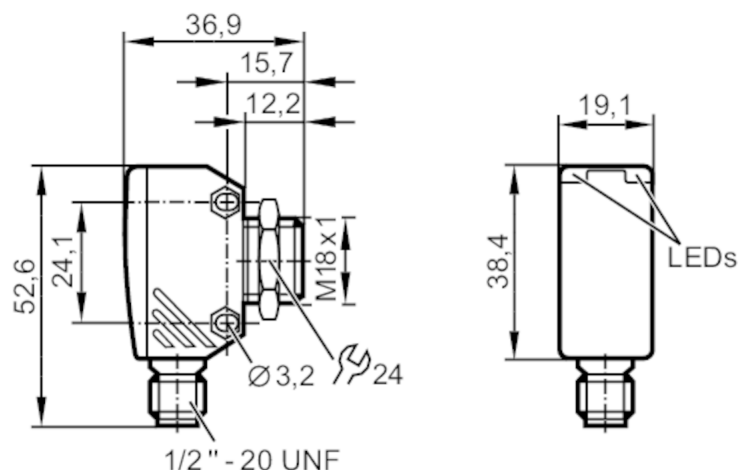


Retro-reflective sensor

OGP-DBOW/LS/CUBE



Application

Function principle	Retro-reflective sensor
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Electrical data

Frequency AC	[Hz]	47...63
Operating voltage	[V]	20...250 AC
Protection class		II; (double insulated)
Type of light		red light
Wave length	[nm]	633

Outputs

Output function	dark-on mode
Max. voltage drop switching output AC [V]	8
Minimum load current [mA]	5
Max. leakage current [mA]	1.7
Permanent current rating of switching output AC [mA]	150; (200 (...40 °C))
Short-time current rating of switching output [mA]	1200; (20 ms / 0,5 Hz)
Switching frequency AC [Hz]	30
Short-circuit protection	no
Overload protection	no

Detection zone

Range referred to prismatic reflector	[m]	4; (Prismatic reflector Ø 80 E20005)
Range adjustable		no
Max. light spot diameter	[mm]	160
Light spot dimensions refer to		at maximum range
Polarisation filter available		yes



Retro-reflective sensor

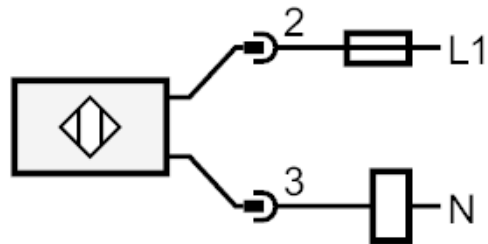
OGP-DBOW/LS/CUBE

Operating conditions		
Ambient temperature	[°C]	-25...60
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011 emission	class B
MTTF	[years]	875
Mechanical data		
Weight	[g]	61.6
Housing		rectangular
Dimensions	[mm]	M18 x 1
Thread designation		M18 x 1
Materials		diecast zinc; PEI
Lens material		PMMA
Lens alignment		side lens
Displays / operating elements		
Display	switching status	1 x LED, yellow
Electrical connection		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
Accessories		
Accessories (supplied)		lock nut: 1 x
Remarks		
Remarks		Do not connect without a load.
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x 1/2"		
		

Retro-reflective sensor

OGP-DBOW/LS/CUBE

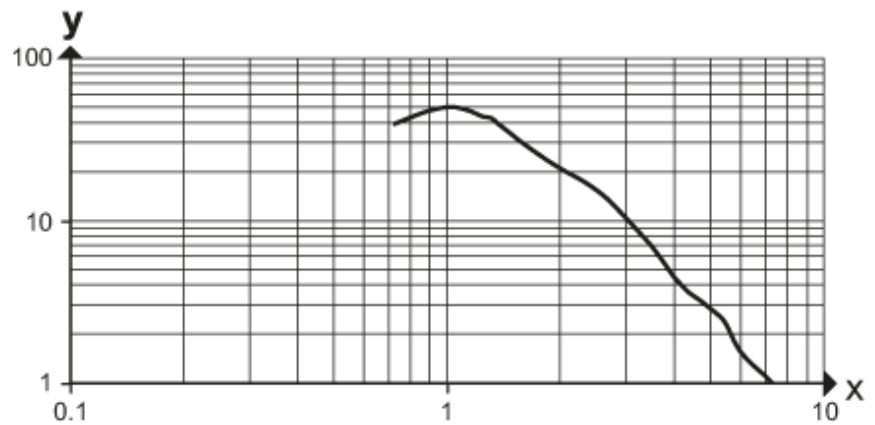
Connection



Note : miniature fuse to IEC60127-2 sheet 1 ≤ 2 A fast acting

Diagrams and graphs

excess gain graph



x: Abstand [m]

y: Funktionsreservefaktor