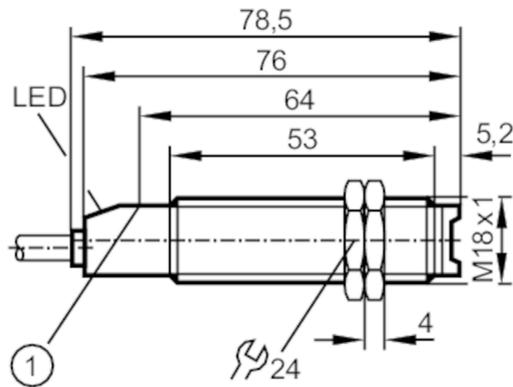




## Diffuse reflection sensor

OGT-DBOA



1 pushbutton



### Product characteristics

Type of light	Infrared light
Housing	Threaded type

### Application

Function principle	Diffuse reflection sensor
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### Electrical data

Frequency AC	[Hz]	47...63
Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no
Type of light		Infrared light
Wave length	[nm]	880

### Outputs

Output function		dark-on mode
Max. voltage drop switching output DC	[V]	8
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]	90; (180 (...40 °C))
Permanent current rating of switching output DC	[mA]	90; (180 (...40 °C))
Short-time current rating of switching output	[mA]	600; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	25
Short-circuit proof		no
Overload protection		no

# OG0040



## Diffuse reflection sensor

OGT-DBOA

Monitoring range		
Range	[mm]	1...600; (white paper 200 x 200 mm 90 % remission)
Range adjustable		yes
Max. light spot diameter	[mm]	169
Light spot dimensions refer to		at maximum range
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	338
Mechanical data		
Weight	[g]	122.4
Housing		Threaded type
Dimensions	[mm]	M18 x 1 / L = 78.5
Thread designation		M18 x 1
Material		PBT
Lens material		PMMA
Displays / operating elements		
Display	Switching status	1 x LED, red
	Function	1 x LED, red flashing
Electrical connection		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
Accessories		
Items supplied		lock nuts: 2
Remarks		
Remarks		Recommendation: check the unit for reliable function after a short circuit.
Pack quantity		1 pcs.

# OG0040



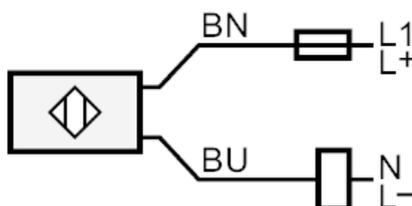
## Diffuse reflection sensor

OGT-DBOA

### Electrical connection

Cable: 2 m, PVC; 2 x 0.5 mm<sup>2</sup>

### Connection



Note : miniature fuse to IEC60127-2 sheet 1  $\leq$  2 A fast acting

Core colors :

BN = brown  
BU = blue

### Diagrams and graphs

excess gain graph

