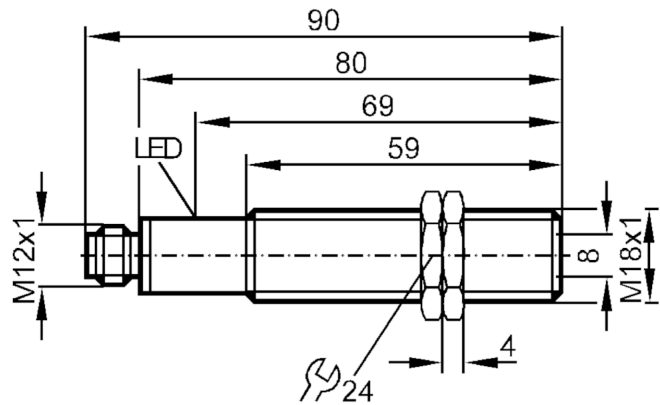




Diffuse reflection sensor

OGT-HPKG/US-100-DPS



Product characteristics		
Type of light		Infrared light
Housing		Threaded type
Application		
Function principle		Diffuse reflection sensor
Application		Industrial applications
Electrical data		
Operating voltage	[V]	10...55 DC; (cULus - Class 2 source required)
Current consumption	[mA]	10; ((24 V))
Protection class		II
Reverse polarity protection		yes
Type of light		Infrared light
Wave length	[nm]	880
Outputs		
Electrical design		PNP
Output function		light-on mode
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	250
Switching frequency DC	[Hz]	160
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes



Diffuse reflection sensor

OGT-HPKG/US-100-DPS

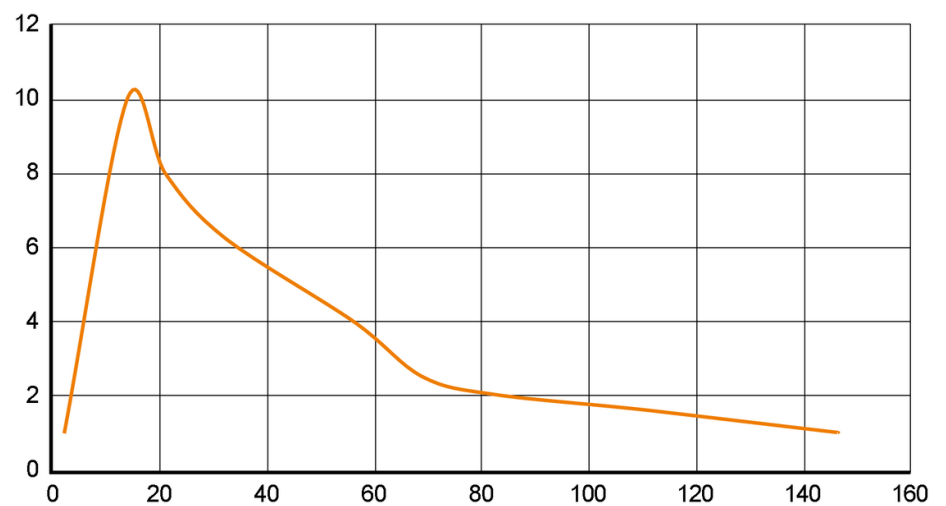
Monitoring range		
Range	[mm]	< 100; (white paper 200 x 200 mm)
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	826
UL approval	Ta	< 40 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	UL approval number	E031
	File number UL	E174191
Mechanical data		
Weight	[g]	74.3
Housing		Threaded type
Dimensions	[mm]	M18 x 1 / L = 90
Thread designation		M18 x 1
Material		housing: brass nickel-plated
Lens material		front lens: glass
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A; Contacts: 4		

Diffuse reflection sensor

OGT-HPKG/US-100-DPS

Connection**Diagrams and graphs**

excess gain graph



x: distance [mm]

y: excess gain factor