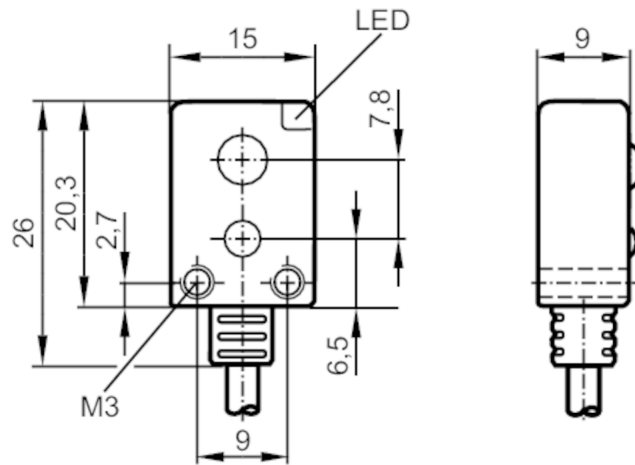


# O7H212



## Diffuse reflection sensors with background suppression

O7H-HPKG/2M/PH



Receiver in upper lens  
transmitter in lower lens



Product characteristics		
Type of light		red light
Housing		rectangular
Application		
System		Background suppression
Function principle		Diffuse reflection sensor
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	20; ((24 V))
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	633
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]	100
Switching frequency DC	[Hz]	750
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)

# O7H212



## Diffuse reflection sensors with background suppression

O7H-HPKG/2M/PH

Monitoring range		
Range	[mm]	3...100; (white paper 200 x 200 mm)
Range on white object (90 % remission)	[mm]	3...100
Range on grey object (18 % remission)	[mm]	6...80
Range on black object (6 % remission)	[mm]	7...46
Range adjustable		no
Max. light spot diameter	[mm]	7
Light spot dimensions refer to		at maximum range
Background suppression available		yes
Operating conditions		
Ambient temperature	[°C]	-25...60
Protection		IP 65
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	1610
Mechanical data		
Weight	[g]	31.2
Housing		rectangular
Dimensions	[mm]	20.3 x 15 x 9
Material		PA
Lens material		PMMA
Lens alignment		Side sensing
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Remarks		
Pack quantity		1 pcs.

# O7H212



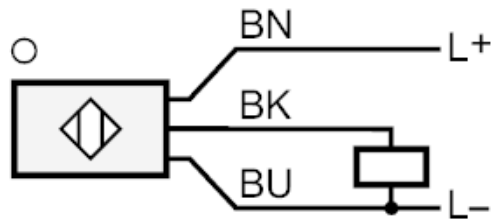
## Diffuse reflection sensors with background suppression

O7H-HPKG/2M/PH

### Electrical connection

Cable: 2 m, PUR; 3 x 0.14 mm<sup>2</sup>

### Connection



Core colors :

BK = black  
BN = brown  
BU = blue