O7P203

Retro-reflective sensor

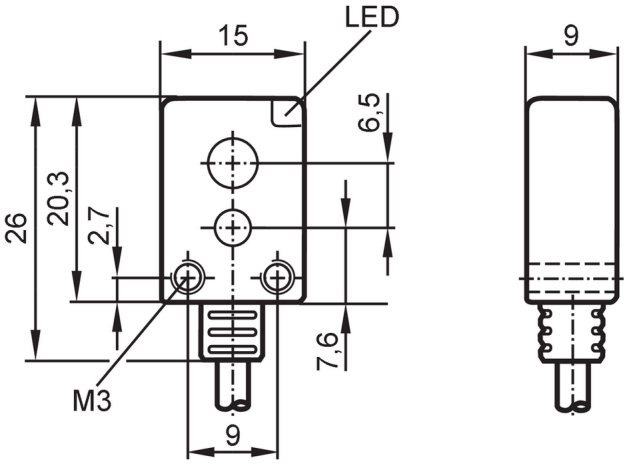
O7P-HNKG/0,20M/AS

phase-out article

Discontinuation date: 03/31/2026

Alternative articles: O7P201

When selecting an alternative article and accessories please note that technical data may differ!



receiver in upper lens
transmitter in lower lens

Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Special feature		polarisation filter
Function principle		Retro-reflective sensor
Application		For applications in robotics, assembly and handling technology
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		NPN
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]	1000
Short-circuit protection		yes

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Type of short-circuit protection		pulsed	
Detection zone			
Range referred to prismatic reflector	[m]	0.03...1; (Prismatic reflector Ø 80 E20005; Prismatic reflector 50 x 50 mm E21299)	
Range adjustable		no	
Max. light spot diameter	[mm]	55	
Light spot dimensions refer to		at maximum range	
Polarisation filter available		yes	
Operating conditions			
Ambient temperature	[°C]	-25...60	
Protection		IP 65	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	969	
Mechanical data			
Weight	[g]	14.4	
Housing		rectangular	
Dimensions	[mm]	20.3 x 15 x 9	
Materials		housing: PA	
Lens material		front pane:PMMA	
Lens alignment		side lens	
Tightening torque	[Nm]	0.5	
Displays / operating elements			
Display		switching status	1 x LED, yellow
Remarks			
Remarks		operating voltage "supply class 2" according to UL	
Pack quantity		1 pcs.	

Electrical connection

Cable: 0.2 m, PUR; 3 x 0.14 mm²

Connector: 1 x M8; coding: A; Contacts: 3; Locking: snap-fit



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Connection

