

Product characteristics
Diffuse reflection sensor

Metal thread M12 x 1

Quick disconnect

gold-plated contacts

Sensing range 50 mm; 20 mm on RAL9005 semi-gloss dark black; 50 mm on Kodak white; [f] flush mountable

Electrical data

Electrical design

DC PNP

Operating voltage [V]

10...30 DC

Current consumption [mA]

< 15

Protection class

III

Reverse polarity protection

yes

Outputs

Output function

normally open

Voltage drop [V]

< 2.5

Current rating [mA]

100

Short-circuit protection

yes (non-latching)

Overload protection

yes

Switching frequency [Hz]

1600; at $S \leq S_n/2$

Monitoring range

Sensing range [mm]

50, 20 mm on RAL9005 semi-gloss dark black; 50 mm on Kodak white

Assured operating distance [mm]

36 *)

Light spot diameter [mm]

10 (S = 6 mm); 24 (S = 20 mm); 36 (S = 36 mm)

Accuracy / deviations

Hysteresis [% of Sr]

1...20

Switch-point drift [% of Sr]

-20...20

Environment

Ambient temperature [°C]

-25...70

Protection

IP 68; "Coolant"

Tests / approvals

EMC

EN 61000-4-2 ESD:

4 kV CD / 8 kV AD

EN 61000-4-3 HF radiated:

10 V/m (80...1000 MHz)

EN 61000-4-4 Burst:

2 kV

EN 61000-4-5 Surge:

0.5 kV

EN 61000-4-6 HF conducted:

10 V (0.15...80 MHz)

EN 55011:

class B

MTTF [Years]

1048

Mechanical data

Mounting

flush mountable

Housing materials

housing: stainless steel (316L); sensor surface: PEI; connector housing: PEI; Nut: brass

Weight [kg]

0.035

Displays / operating elements

Output status indication LED

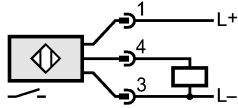
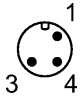
yellow (4 x 90°)

Electrical connection

JAC201 - Diffuse reflection sensor - eclass: 27270801 / 27-27-08-01

Connection	M12 connector; gold-plated contacts
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Wiring



Accessories	
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Accessories (included)	2 lock nuts
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Remarks	
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Remarks	*) on Kodak white
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Pack quantity	[piece]	1
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