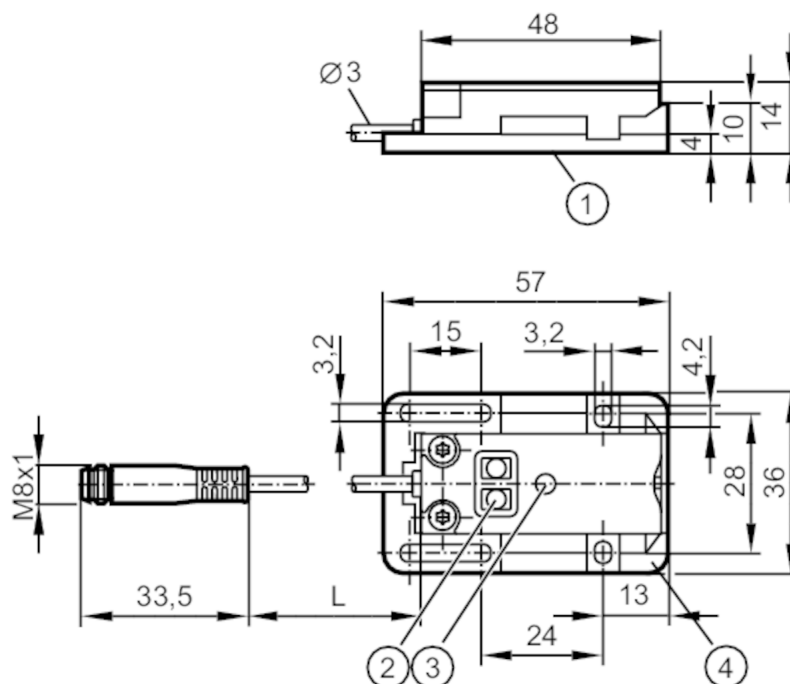


KQ6008



Capacitive sensor

KQ-3120NFPKG/2T/0,04M/AS



- 1 sensing face
- 2 programming buttons
- 3 LED
- 4 Mounting adapters E12153



Product characteristics

Electrical design	PNP
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	12
Communication interface	IO-Link
Housing	rectangular
Dimensions [mm]	20 x 14 x 48

Application

Installation	detection through non-metallic container wall or on bypass pipes
Media	dry bulk material; liquids

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 17
Protection class		III
Reverse polarity protection		yes
Measuring principle		capacitive

Outputs

Electrical design	PNP
Output function	normally open / normally closed; (selectable)



Capacitive sensor

KQ-3120NFPKG/2T/0,04M/AS

Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	10
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	12
Real sensing range Sr	[mm]	12 ± 10 %
Accuracy / deviations		
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-20...20
Interfaces		
Communication interface		IO-Link
Transmission type		COM1 (4,8 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9 CDV
Profiles		Smart Sensor
SIO mode		yes
Min. process cycle time	[ms]	100.8
Supported DeviceIDs	Type of operation	DeviceID
	default	371
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65; IP 67; IP 69K
Tests / approvals		
EMC	EN 61000-4-2 ESD	8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	3 V
	EN 55011	class B
Shock resistance	EN 60068-2-27	30 g 6 shocks / 11 ms half-sine (x, y, z)
Vibration resistance	EN 60068-2-6	(10...55 Hz) / 1 mm amplitude, oscillation period 5 min., 30 min. per axis at resonance or 55 Hz
MTTF	[years]	725
Mechanical data		
Weight	[g]	31.3
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	20 x 14 x 48
Materials	housing: PBT glass fibre reinforced; pushbuttons: TPE-U; cover: PC glass fibre reinforced	

KQ6008



Capacitive sensor

KQ-3120NFPKG/2T/0,04M/AS

Displays / operating elements

Display	switching status	1 x LED, yellow
Teach function		yes
Electronic lock		yes

Accessories

Items supplied	mounting adapter: 1, fitted, E12153
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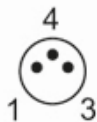
Remarks

Pack quantity	1 pcs.
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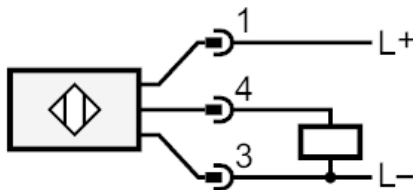
Electrical connection - plug

Cable: 0.04 m, PVC; 3 x 0.14 mm²

Connector: 1 x M8; coding: A



Connection



4: OUT / IO-Link