

KQ6010



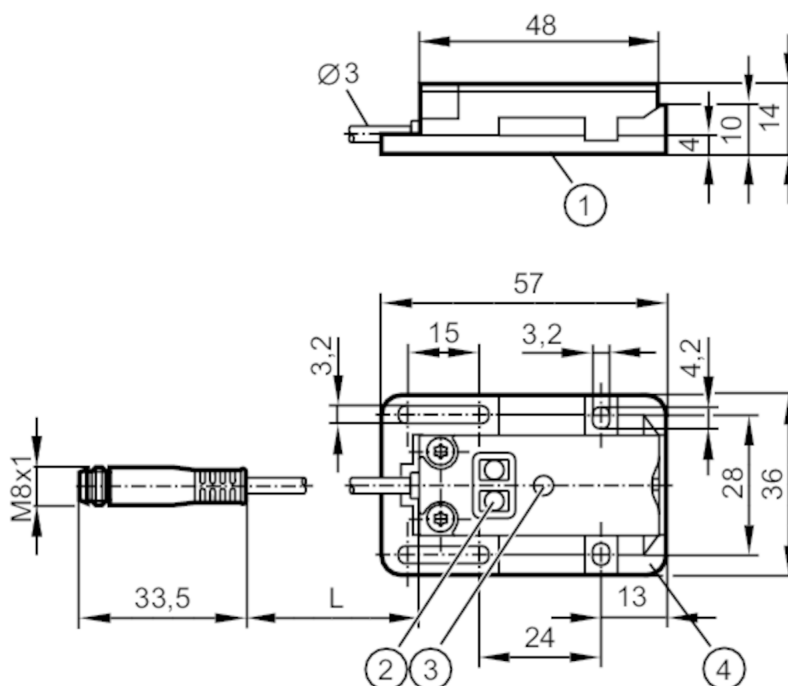
Capacitive sensor

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

phase-out article

Alternative articles: KQ6004 + E12153

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



- 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

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Capacitive sensor

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Outputs		
Electrical design	PNP	
Output function	normally open / normally closed; (selectable)	
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	
Tests / approvals		
EMC	EN 61000-4-2	8 kV AD
	EN 61000-4-3	10 V/m
	EN 61000-4-4	2 kV
	EN 61000-4-6	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
Mechanical data		
Weight [g]	31.7	
Housing	rectangular	
Mounting	non-flush mountable	
Dimensions [mm]	20 x 14 x 48	

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Materials	housing: PBT glass fibre reinforced; pushbuttons: TPE-U; cover: PC glass fibre reinforced; Adapter: PBT; inserts: brass; screw: steel galvanised
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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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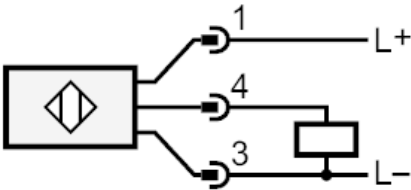
Electrical connection - plug

Cable: 0.04 m, PVC

Connector: 1 x M8; coding: A



Connection



4:	OUT / IO-Link
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