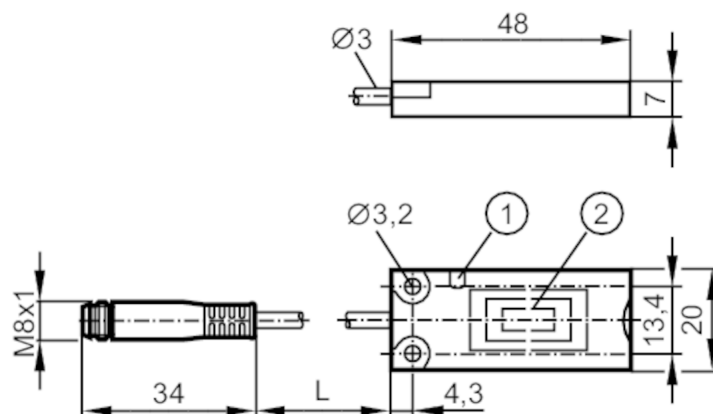




Capacitive sensor

KQ-3120NFPKG/0,04M/AS



- 1 LED
2 Sensing face



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 7 x 48

Electrical data

Operating voltage [V]	10...30 DC; ("supply class 2" according to UL)
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)
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
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



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Software / programming		
Parameter setting options	only via IO-Link	
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	
Supported DeviceIDs	Type of operation	DeviceID
	default	371
Operating conditions		
Ambient temperature	[°C]	-25...80
Note on ambient temperature	for UL application: ...50 °C	
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
Vibration resistance	EN 60068-2-6 Fc	(10...55 Hz) / 1 mm amplitude, oscillation period 5 min., 30 min. per axis at resonance or 55 Hz
Shock resistance	EN 60068-2-27 Ea	30 g 6 shocks / 11 ms half-sine (x, y, z)
MTTF	[years]	771
Mechanical data		
Weight	[g]	17.9
Housing	rectangular	
Mounting	non-flush mountable	
Dimensions	[mm]	20 x 7 x 48
Materials	PBT; TPE-U; stainless steel	
Displays / operating elements		
Display	switching status	1 x LED, yellow
Remarks		
Pack quantity	1 pcs.	

KQ5102



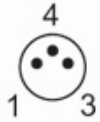
Capacitive sensor

KQ-3120NFPKG/0,04M/AS

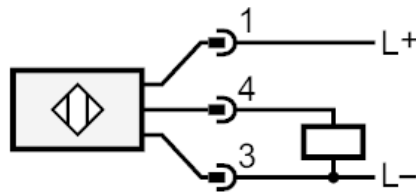
Electrical connection - plug

Cable: 0.04 m, PUR, Ø 2.9 mm

Connector: 1 x M8; coding: A



Connection



4: OUT / IO-Link