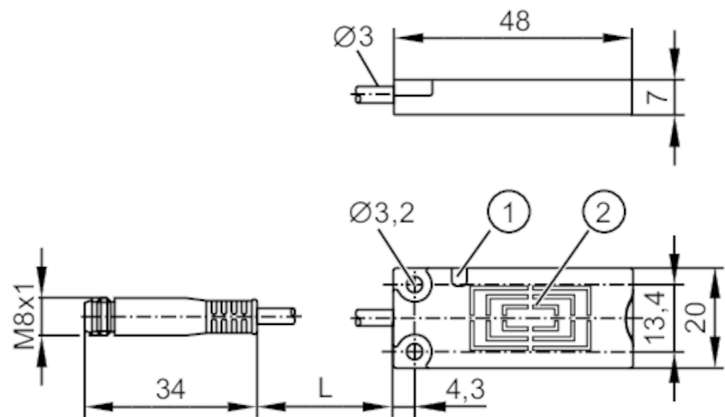


KQ5108



Capacitive sensor

KQ-3120NFPKG/0,5M/AS



- 1 LED
- 2 Sensing face

IO-Link

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
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
Factory setting switch point		130; (process data value switch point 1)
Real sensing range Sr	[mm]	12 ± 10 %
Accuracy / deviations		
Hysteresis	[% of Sr]	1...15

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Switch point drift	[% of Sr]	-20...20
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Software / programming

Parameter setting options	only via IO-Link
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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	<table><tr><th>Type of operation</th><th>DeviceID</th></tr><tr><td>default</td><td>371</td></tr></table>	Type of operation	DeviceID	default	371
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; IP 69K	

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]	838

Mechanical data

Weight	[g]	22.3
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
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Remarks

Pack quantity	1 pcs.
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Electrical connection - plug

Cable: 0.5 m, PUR, Ø 2.9 mm

Connector: 1 x M8; coding: A



Connection

