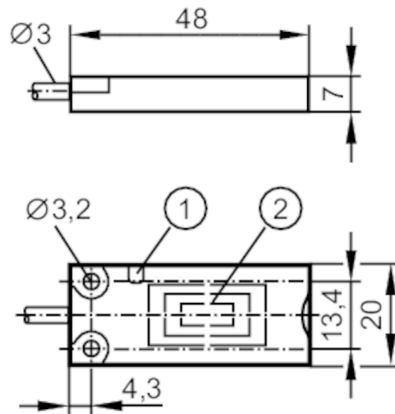


KQ5105



Capacitive sensor

KQ-3120NFNKG



- 1 LED
- 2 Sensing face



Product characteristics		
Electrical design		NPN
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
Outputs		
Electrical design		NPN
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



Capacitive sensor

KQ-3120NFNKG

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
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]	717.42
Mechanical data		
Weight	[g]	36.2
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.	

KQ5105



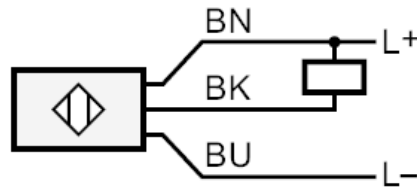
Capacitive sensor

KQ-3120NFNKG

Electrical connection

Cable: 2 m, PUR; 3 x 0.14 mm²

Connection



BK: OUT / IO-Link
Core colours :
BK = black
BN = brown
BU = blue