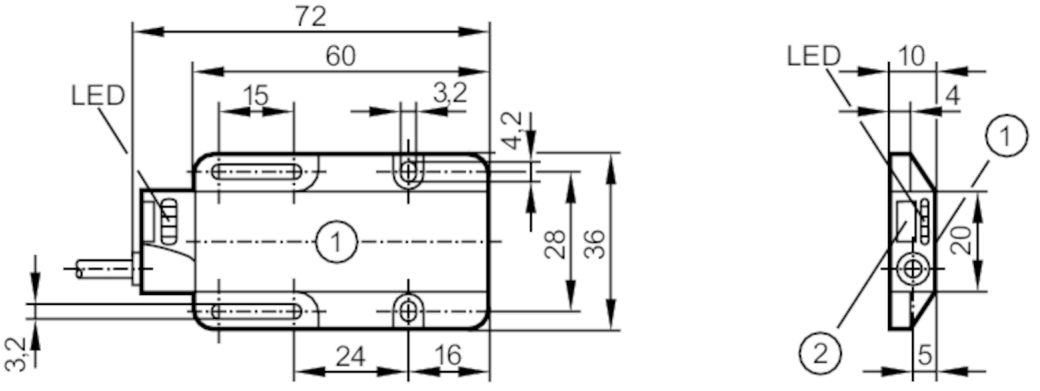
KW5001

Capacitive sensor

KW-3012-FPKG/NI

Article no longer available - archive entry

Alternative articles: KQ6002 + E12153
When selecting an alternative article and accessories please note that technical data may differ!



1 sensing face
2 teach-in element

CE

Product characteristics		
Electrical design		PNP
Output function		normally open / closed; (selectable)
Sensing range	[mm]	12; (Programmable sensing range)
Housing		rectangular
Dimensions	[mm]	72 x 36 x 10
Application		
System		Function check output
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	30; (24 V)
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		PNP
Output function		normally open / closed; (selectable)
Max. voltage drop switching output DC	[V]	2.5
Function check output		yes
Max. voltage drop of function check output	[V]	3.5
Max. current load for function check output	[mA]	10
Permanent current rating of switching output DC	[mA]	150
Switching frequency DC	[Hz]	40

KW5001

Capacitive sensor

KW-3012-FPKG/NI

Short-circuit protection		yes	
Type of short-circuit protection		yes (non-latching)	
Overload protection		yes	
Monitoring range			
Sensing range	[mm]	12; (Programmable sensing range)	
Sensing range adjustable		yes	
Real sensing range Sr	[mm]	12 ± 10 %	
Accuracy / deviations			
Correction factor		glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.2	
Hysteresis	[% of Sr]	1...15	
Switch-point drift	[% of Sr]	-15...15	
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
Mechanical data			
Housing		rectangular	
Mounting		flush mountable	
Dimensions	[mm]	72 x 36 x 10	
Material		PBT; PC	
Displays / operating elements			
Display		Switching status	1 x LED, yellow
		Power	1 x LED, green
		Function	1 x LED, red
Remarks			
Pack quantity		1 pcs.	

KW5001

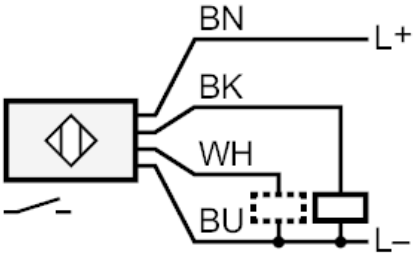
Capacitive sensor

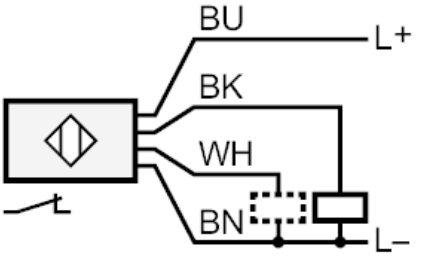
KW-3012-FPKG/NI

Electrical connection

Cable: 2 m, PVC; 4 x 0.14 mm²

Connection





WH:	Function check output programming wire
	Core colors :
BK =	black
BN =	brown
BU =	blue
WH =	white