KN5112

Capacitive sensor

KNQ01NUKFNKG

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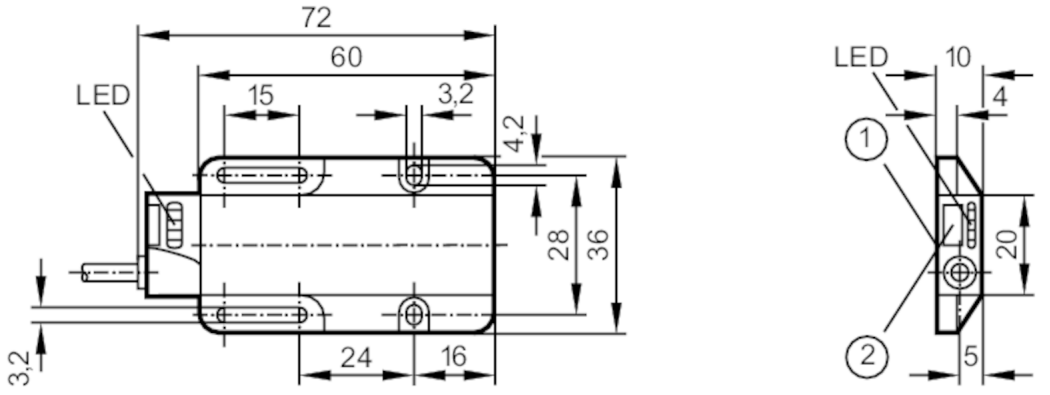

1 Sensing face
2 teach-in element

Product characteristics		
Electrical design		NPN
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	sensing range programmable
Housing		rectangular
Dimensions	[mm]	72 x 36 x 10
Application		
Special feature		Function check output
Installation		detection through container wall
Media		dry bulk material; liquids
Electrical data		
Operating voltage	[V]	10...36 DC
Current consumption	[mA]	30; (24 V)
Protection class		II
Reverse polarity protection		yes
Outputs		
Electrical design		NPN
Output function		normally open / normally 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]	5

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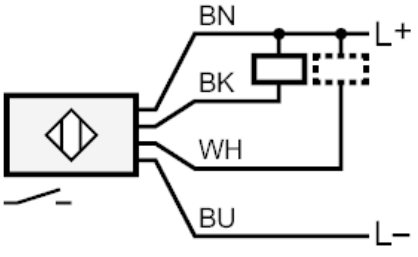
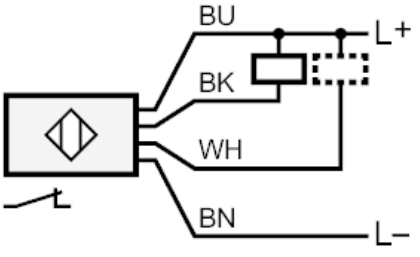
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Sensing range	[mm]	sensing range programmable
Sensing range adjustable		yes
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
EMC		EN 60947-5-2
Mechanical data		
Housing		rectangular
Mounting		non-flush mountable
Dimensions	[mm]	72 x 36 x 10
Materials		PP; end cap: SAN
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
	function	1 x LED, red
Accessories		
Items supplied		screwdriver: 1
Remarks		
Pack quantity		1 pcs.
Electrical connection		

Cable: 2 m, PVC; 4 x 0.14 mm²

Connection





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