KN5105

Capacitive sensor

KNQ01NUKFPKG

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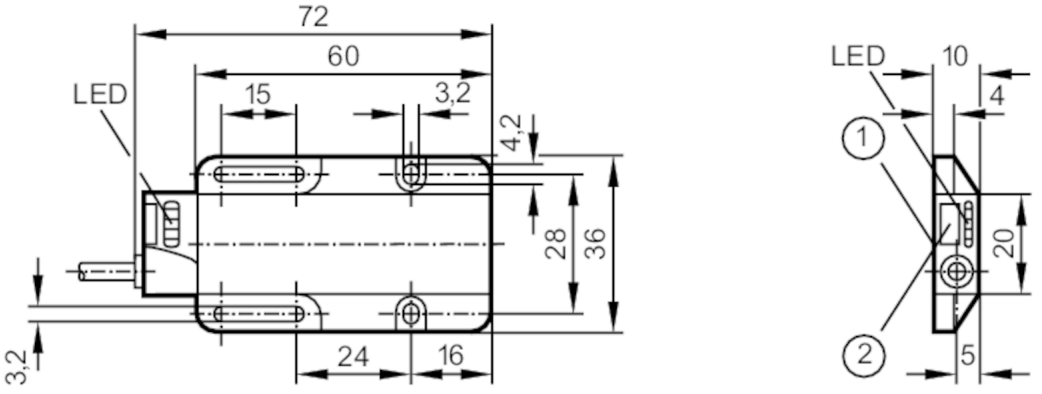
Alternative articles: KQ6002
When selecting an alternative article and accessories please note that technical data may differ!



1 Sensing face
2 teach-in element

Product characteristics		
Electrical design		PNP
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	adjustment to the empty and full state possible
Housing		rectangular
Dimensions	[mm]	72 x 36 x 10
Application		
Special feature		Function check output
Installation		detection through non-metallic container wall or on bypass pipes
Media		dry bulk material; liquids
Recommended media		media with a dielectric constant < 20; oils
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 / 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

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Max. current load for function check output	[mA]	10	
Permanent current rating of switching output DC	[mA]	150	
Switching frequency DC	[Hz]	5	
Short-circuit protection		yes	
Type of short-circuit protection		pulsed	
Overload protection		yes	
Detection zone			
Sensing range	[mm]	adjustment to the empty and full state possible	
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		PC; PBT	
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.	

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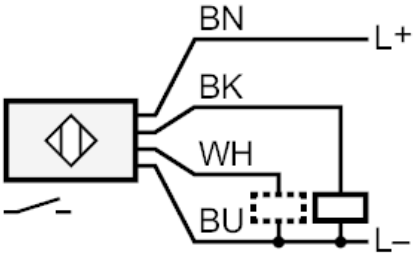
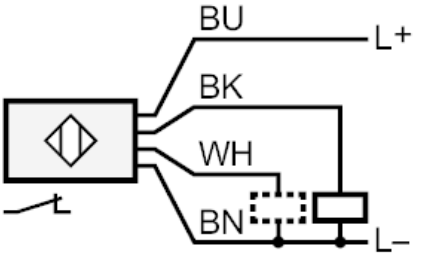
Electrical connection

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