KN0003

Capacitive sensor

KNM30NUAFBOW/SL/OF

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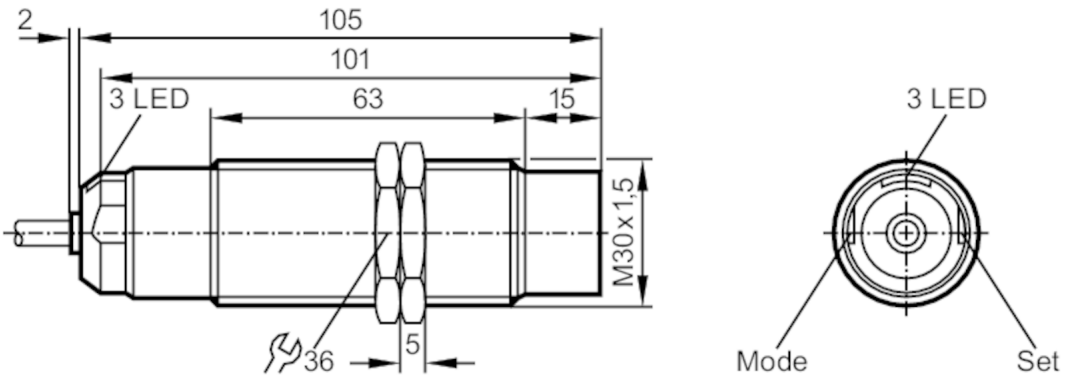

Product characteristics		
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	sensing range programmable
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 105
Application		
Special feature		Optical setting aid
Installation		detection through non-metallic container walls
Media		dry bulk material; liquids
Medium temperature	[°C]	-25...100
Electrical data		
Frequency AC	[Hz]	47...63
Operating voltage	[V]	30...250 AC
Protection class		I
Outputs		
Output function		normally open / normally closed; (selectable)
Max. voltage drop switching output AC	[V]	10
Minimum load current	[mA]	5
Max. leakage current	[mA]	2.5 (250 V) / 1.7 (110 V)
Permanent current rating of switching output AC	[mA]	150; (200 (...40 °C))
Short-time current rating of switching output	[mA]	1000; (20 ms / 0,5 Hz)
Switching frequency AC	[Hz]	5
Detection zone		
Sensing range	[mm]	sensing range programmable
Sensing range adjustable		yes

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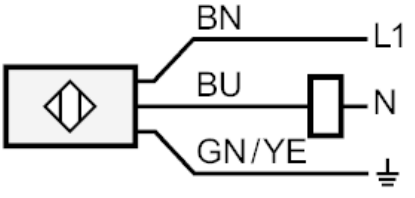
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
Mechanical data			
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 105	
Thread designation		M30 x 1.5	
Materials		brass Optalloy-plated; PBT; PPS	
Displays / operating elements			
Display		switching status	1 x LED, yellow
		unsafe zone	1 x LED, red
		programming	1 x LED, green
Optical setting aid		yes	
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			

Cable: 2 m, PVC; 3 x 0.5 mm²

Connection



	Core colours :
BN =	brown
BU =	blue
GN/YE =	green/yellow