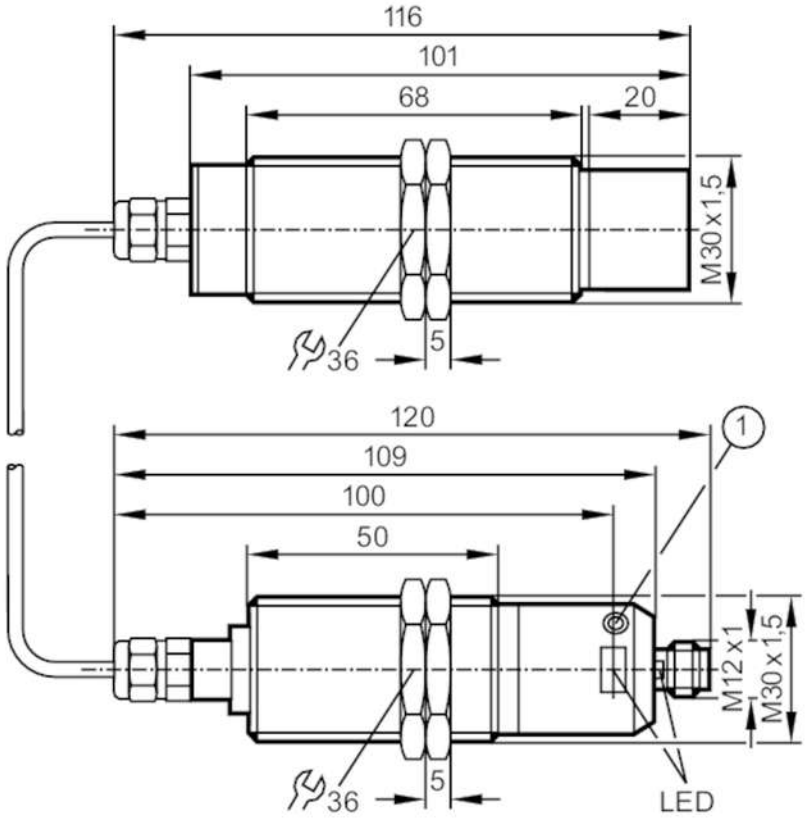
KN5121

Capacitive high-temperature sensor

KNM30-HAFPKG



1 programming button

Product characteristics		
Electrical design		PNP
Output function		normally open / normally closed; (selectable)
Sensing range	[mm]	sensing range programmable
Housing		threaded type
Dimensions	[mm]	M30 x 1.5 / L = 116
Application		
Media		dry bulk material
Recommended media		plastic granulates
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	34; (typical: 34 (24 V); maximum: 39 (30 V))
Protection class		III
Reverse polarity protection		yes
Measuring principle		capacitive
Outputs		
Electrical design		PNP
Output function		normally open / normally closed; (selectable)

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Max. voltage drop switching output DC	[V]	2.5	
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]	200	
Switching frequency DC	[Hz]	10	
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]	-15...230	
Note on ambient temperature		sensor: -15...230 °C	
		briefly: ...250 °C (4 h)	
		HF connection cable: -25...200 °C	
		electronics: -25...70 °C	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	347	
Mechanical data			
Weight	[g]	458.5	
Housing		threaded type	
Mounting		non-flush mountable	
Dimensions	[mm]	M30 x 1.5 / L = 116	
Thread designation		M30 x 1.5	
Materials		housing sensor: PPS; brass white bronze coated; housing electronic: PBT; PP; brass white bronze coated	
Displays / operating elements			
Display		switching status	2 x LED, yellow
		operation	1 x LED, green
		error	1 x LED, red
Accessories			
Items supplied		lock nuts: 2	
Remarks			
Pack quantity		1 pcs.	

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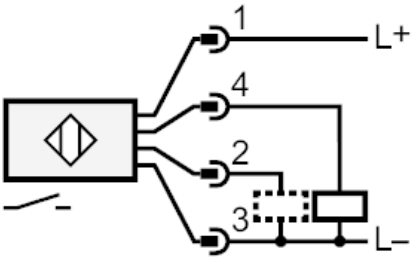
Electrical connection - HF connection cable

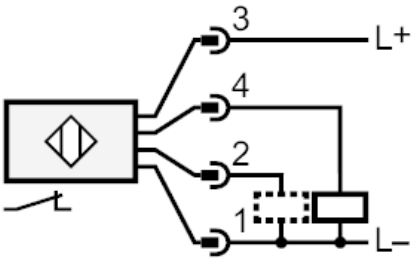
Cable: 2 m

Electrical connection - plug

Connector: 1 x M12; coding: A







2: Function check output programming wire