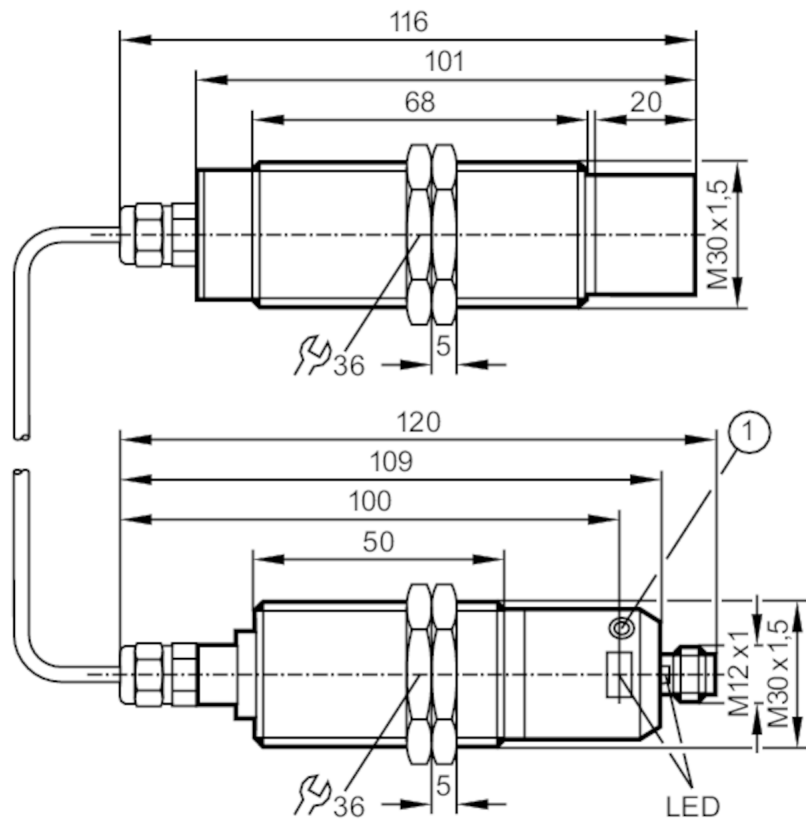


KN5121



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)



Capacitive high-temperature sensor

KNM30-HAFPKG

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
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Remarks

Pack quantity	1 pcs.
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KN5121



Capacitive high-temperature sensor

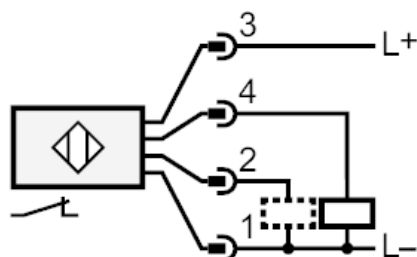
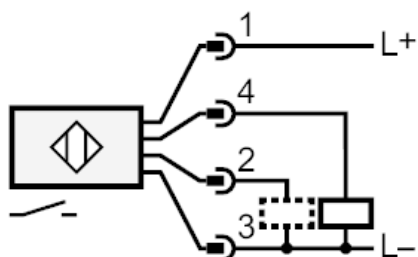
KNM30-HAFPKG

Electrical connection - HF connection cable

Cable: 2 m

Electrical connection - plug

Connector: 1 x M12; coding: A



2: Function check output programming wire