

PRODUCT SHEET

High-Temperature Inductive Proximity Sensor

AKJK-GY10M30Q-PNP

A high-temperature, washdown-resistant inductive sensor for harsh machining environments exposed to coolant.



The AEX AKJK-GY10M30Q-PNP is a flush-mount M30 inductive proximity sensor designed for demanding machining and industrial automation environments. It provides a 10.0 mm rated sensing distance, PNP open collector output, a PTFE sensing face, IP67 protection and an operating temperature range of -25 to +120 °C.

10.0 mm Rated Sensing	-25 to +120 °C Operating Range	IP67 Protection	PNP Open Collector
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Features

 High-temperature operation	 10.0 mm rated sensing	 Flush-mount M30 × 1
 IP67 protection	 PNP open collector output	 2 m, 3-core cable

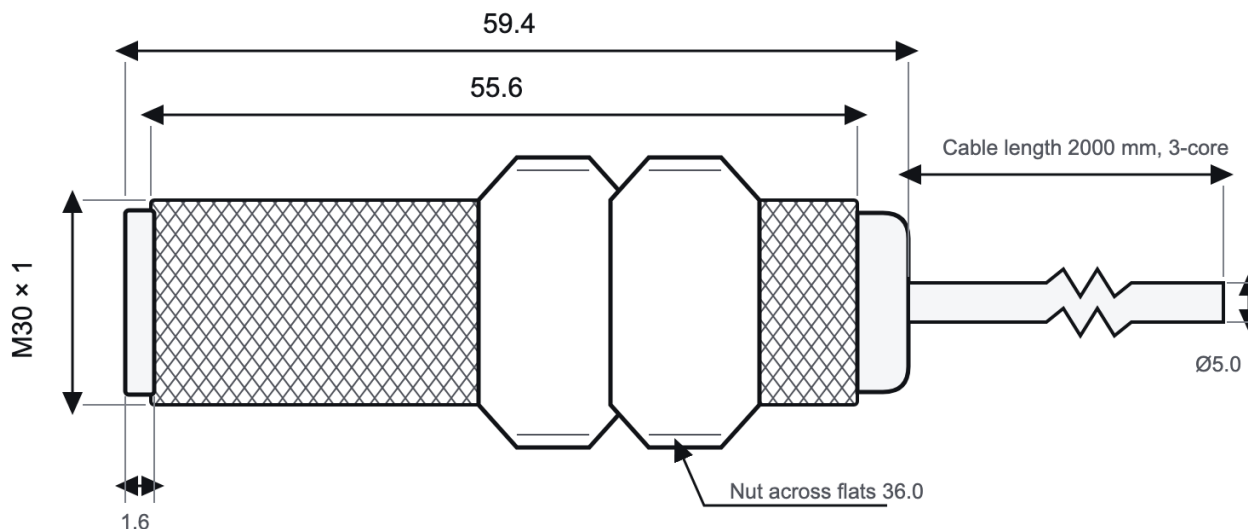
Specifications

Product type	Inductive proximity sensor	Operating principle	Eddy-current induction
Housing	Threaded cylindrical, M30	Mounting	Flush
Rated sensing distance	10.0 mm	Assured operating distance	8.0 mm
Sensing face	PTFE	Output	PNP open collector
Switching mode	NO / NC versions available	Supply voltage	10-30 VDC ±10%
Switching frequency	300 Hz	Load current	≤100 mA
Operating temperature	-25 to +120 °C	Protection rating	IP67

Dimension Drawing

AKJK-GY10M30Q-PNP — COMPLETE DIMENSION DRAWING

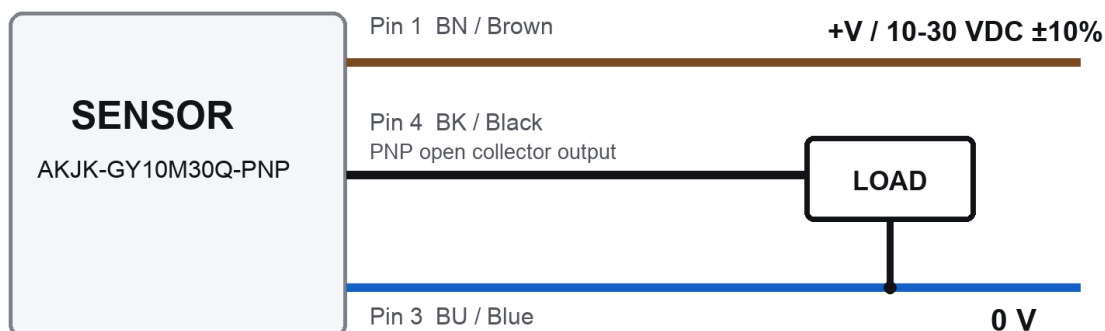
All dimensions in millimetres



Cable break shown; cable length is not to scale.

Wiring Diagram

PNP, DC 3-wire wiring



Three conductors: BN supplies +V, BK is the switching output, and BU is 0 V.

Additional Specifications

Standard target	Fe 37	Indicator	Red LED
Repeatability	<=5%	Hysteresis	<=15%
Current consumption	<=15 mA	Residual voltage	<=1.5 V
Leakage current	<=0.01 mA	Insulation resistance	>=50 Mohm / 500 VDC
Dielectric strength	1000 VAC, 50/60 Hz, 1 min	Operating humidity	35-95% RH, no condensation
Connection	2 m, 3-core cable	Housing material	Nickel steel alloy (source wording)
Weight	Approx. 180 g	Accessories	2 nuts
Overall length	59.4 mm	Threaded body length	55.6 mm
Front section	1.6 mm	Thread	M30 × 1
Cable diameter	Ø5.0 mm	Nut across flats	36.0 mm
Cable length	2000 mm	Load connection	Between BK and 0 V

Ordering and Wiring

Model AKJK-GY10M30Q-PNP | PNP open collector | M30 × 1 | 10.0 mm rated sensing | 2 m, 3-core cable

BN / Brown: +V (10-30 VDC ±10%) | BU / Blue: 0 V | BK / Black: PNP open collector output. Confirm the selected NO / NC version before commissioning.