M50 inductive proximity sensor

CONTACTLESS METAL DETECTION

A cylindrical inductive sensor for metal-part presence detection and machine position feedback. The threaded metal body and twin mounting nuts support straightforward machine integration.



Application areas
Conveyors and part handling
Machine position sensing
Jigs, fixtures and automation

25 mm	PNP NO	10-35 VDC
SENSING RANGE	OUTPUT	SUPPLY VOLTAGE

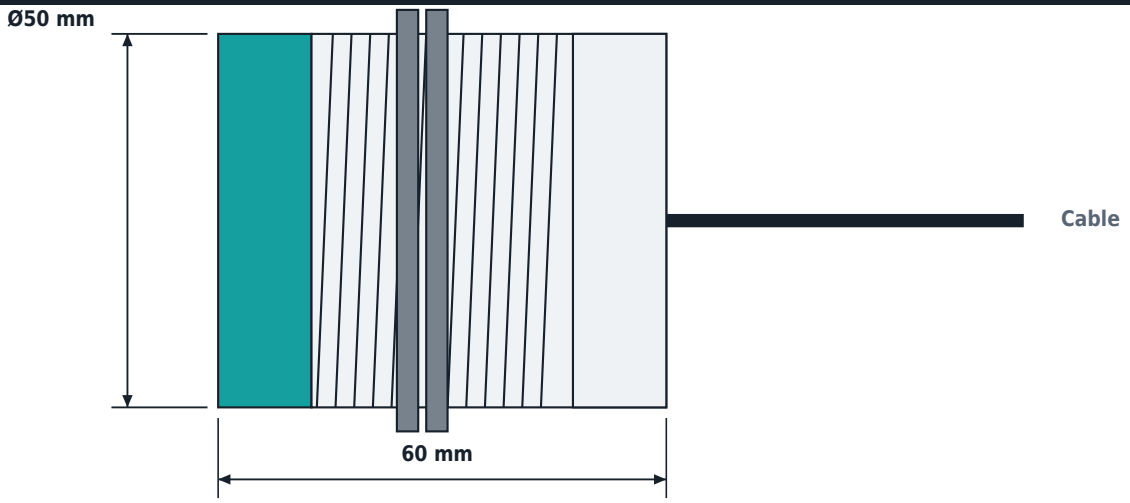
01 RATINGS & TECHNICAL DATA

Sensing principle	**Inductive**
Detectable target	**Metal**
Nominal sensing distance, sn	**25 mm**
Supply voltage, UB	**10-35 VDC**
Output type	**PNP sourcing output**
Switching function	**Normally open (NO)**
Output action	**Positive switching**
Connection arrangement	**DC 3-wire, pre-wired cable**
Body diameter / body length	**50 mm / 60 mm (cable excluded)**
Housing / sensing face	**Threaded metal body / teal face**
Mounting hardware	**Two plain hexagonal mounting nuts**

Detection characteristics
Inductive sensing operates without physical contact. Metal type, target size and approach direction influence the operating distance. Check switching performance with the actual machine target during setup.

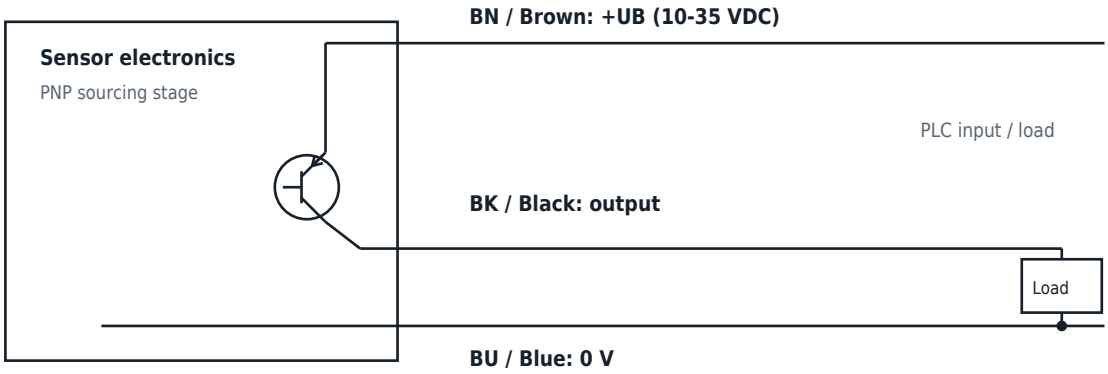
Dimensions & electrical connection

02 OUTLINE DIMENSIONS



Dimensions in mm. Body length excludes cable. Drawing not to scale.

03 PNP NO CIRCUIT DIAGRAM



The PNP output supplies positive voltage to the load when a metal target is detected. Connect the load between the black output wire and blue 0 V wire; connect the PLC input common to 0 V.

04 OUTPUT OPERATION

Target condition	Output state	Load / PLC input
Metal absent	OFF	Inactive
Metal detected	ON	Active

INSTALLATION NOTES

Position the teal sensing face towards the metal target and maintain a non-contact gap. Secure the body using its mounting nuts. Route the cable away from moving parts and high-current power wiring. Set the operating gap using the actual target and confirm reliable ON/OFF switching throughout machine travel.