



P1003 & P1004

BETTER BY DESIGN

INDUCTIVE PROXIMITY SENSOR

Approved for explosive atmospheres:

ATEX, IECEx, EAC Ex and CCCEX

Zones 21 & 22 for dust

Zones 1 & 2 for gas

Zone M2 for Mining

Application:

- Detects the presence or absence of metal target
- Used for sensing the speed of machinery, guard gate positions and other similar applications

Features:

- 24-240V AC/DC or 0-30VDC power supply
- 2 and 4 wire versions available
- IP 66 rated
- M18 x 1.0 ISO threaded nylon body
- Blue LED showing output state
- ≤6mm detection range

**Part numbers:**

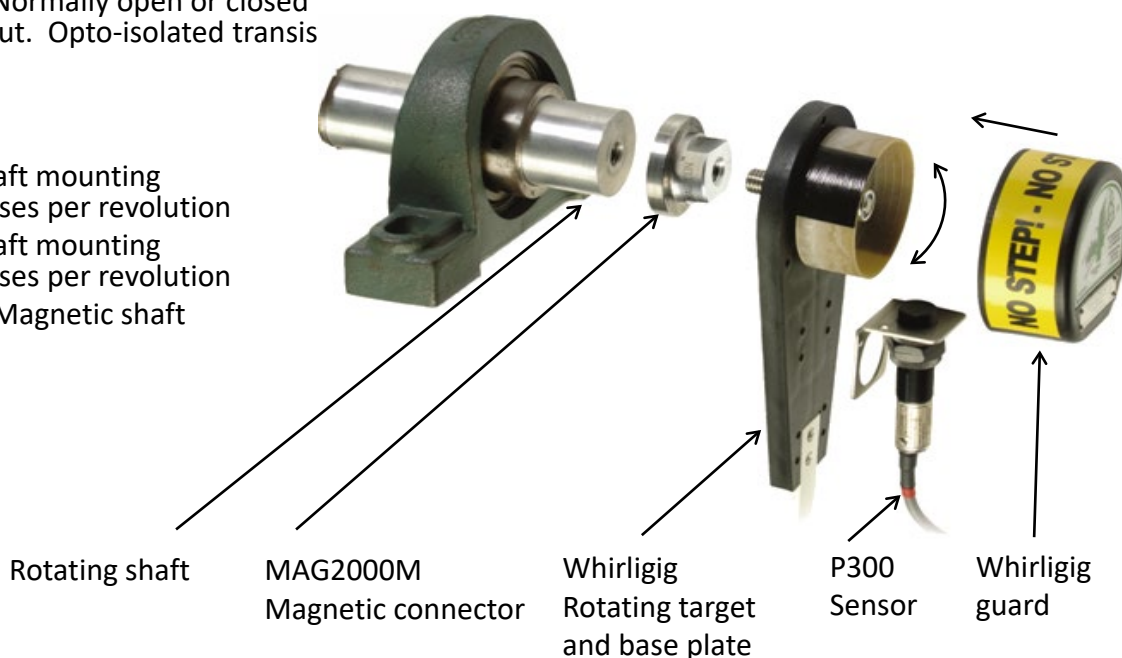
- **P1003V10AI** – Normally closed output
- **P1004V10AI** – Normally open output
- **P1003V34AI** – Normally open or closed selectable output. Opto-isolated transistors output

P100 Inductive Sensor

Shown with optional Whirligig and Mag-Con

Options:

- **WG4A-BR** – Shaft mounting assembly, 4 pulses per revolution
- **WG2A-BR** – Shaft mounting assembly, 2 pulses per revolution
- **MAG2000M** – Magnetic shaft connector





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TECHNICAL SPECIFICATIONS

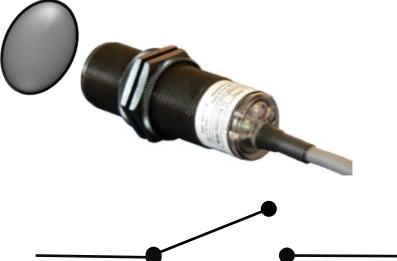
Model	P1003V10AI	P1004V10AI	P1003V34AI
Power supply	24-240 VAC/VDC	24-240 VAC/VDC	10-30 VDC
Output	Normally closed N/C	Normally open N/O	Either N/C or N/O
Number of wires	2	2	4
Voltage drop	5.5V max	5.5V max	Nil
Detection range	≤ 6 mm	≤ 6 mm	≤ 6 mm
Maximum detection frequency	3,600 PPM / 60 Hz	3,600 PPM / 60 Hz	3,600 PPM / 60 Hz
Maximum current	50 mA	50 mA	100 mA
Operating temperature range	-15°C to +50°C	-15°C to +50°C	-15°C to +50°C
Certificates and approvals	II 2G Ex mb IIC T5 Gb Ex mb IIC T5 Gb PB Ex mb I Mb X Ex mbD A21 T100°C	II 2D Ex mb IIIC T100°C Db IP66 Ex mb IIIC T100°C Db IP66 1 Ex mb IIC T5 Gb X	I M2 Ex mb I Mb Ex mb I Mb Ex mb IIIC T100°C Db X
Protection	IP66	IP66	IP66

OUTPUT MODES EXPLAINED

P1003V10AI

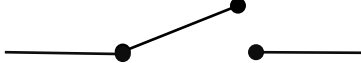


Normally closed



Opens when target is seen

P1004V10AI

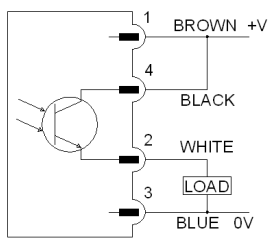


Normally open

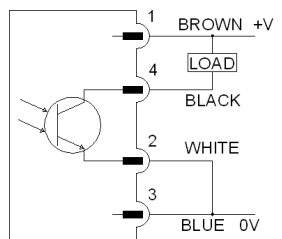


Closes when target is seen

P1003V34AI



Normally closed



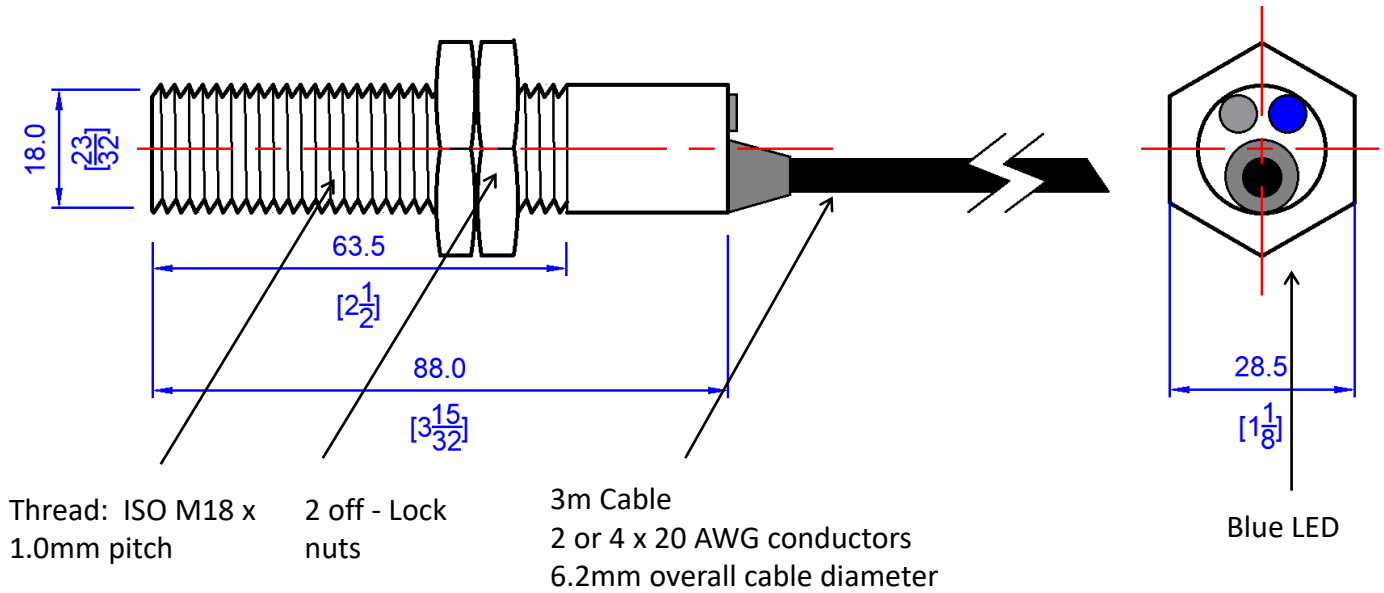
Normally open



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DIMENSIONS



Note: All dimensions are given in mm and inches