



P3003 & P3004

BETTER BY DESIGN

INDUCTIVE PROXIMITY SENSOR

Approved for explosive atmospheres:

ATEX and IECEx

Zones 20, 21 & 22 for dust

Zones 0, 1 & 2 for gas

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 multi voltage power supply
- 2 and 4 wire versions available
- IP 66 rated
- M30 x 1.5 ISO threaded polycarbonate body
- Blue LED showing output state
- $\leq 8\text{mm}$ detection range

Part numbers:

- **P3003V10AI** – Normally closed output
- **P3004V10AI** – Normally open output
- **P3003V34AI** – Normally open or closed selectable output. Opto-isolated transistor output

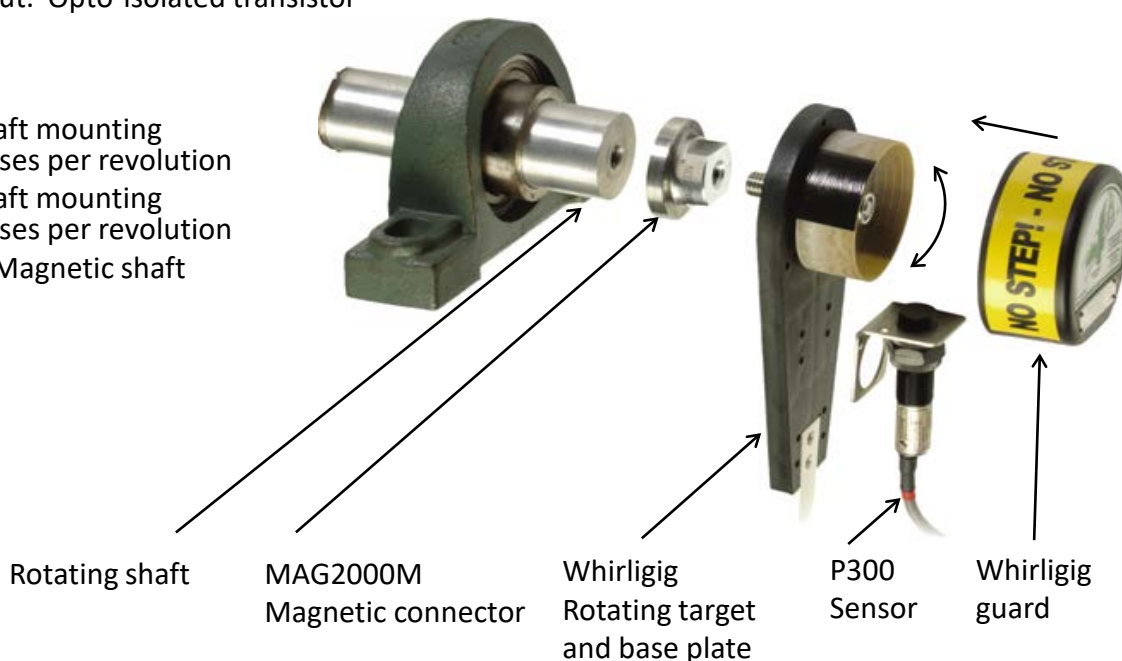
Options:

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



P300 Inductive Sensor

Shown with optional Whirligig and Mag-Con





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TECHNICAL SPECIFICATIONS

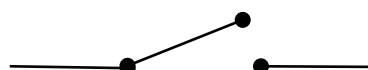
Model	P3003V10AI	P3004V10AI	P3003V34AI
Power supply	24-240 VAC/VDC	24-240 VAC/VDC	10-30 VDC
Output	Normally closed N/C	Normally open N/O	Either N/C or N/O
Number of wires	2	2	4
Voltage drop	5.5V max	5.5V max	Nil
Detection range	≤ 8 mm	≤ 8 mm	≤ 8 mm
Maximum detection frequency	3,600 PPM / 60 Hz	3,600 PPM / 60 Hz	3,600 PPM / 60 Hz
Maximum current	100 mA	100 mA	100 mA
Operating temperature range	-15°C to +50°C	-15°C to +50°C	-15°C to +50°C
Certificates and approvals	ATEX and IECEx Zone 20 + Zone 0	ATEX and IECEx Zone 20 + Zone 0	ATEX and IECEx Zone 20 + Zone 0
Protection	IP66	IP66	IP66

OUTPUT MODES EXPLAINED

P3003V10AI



Normally closed



Opens when target is seen

P3004V10AI

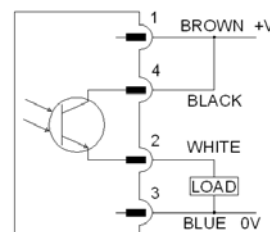


Normally open

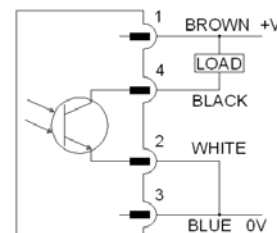


Closes when target is seen

P3003V34AI



Normally closed



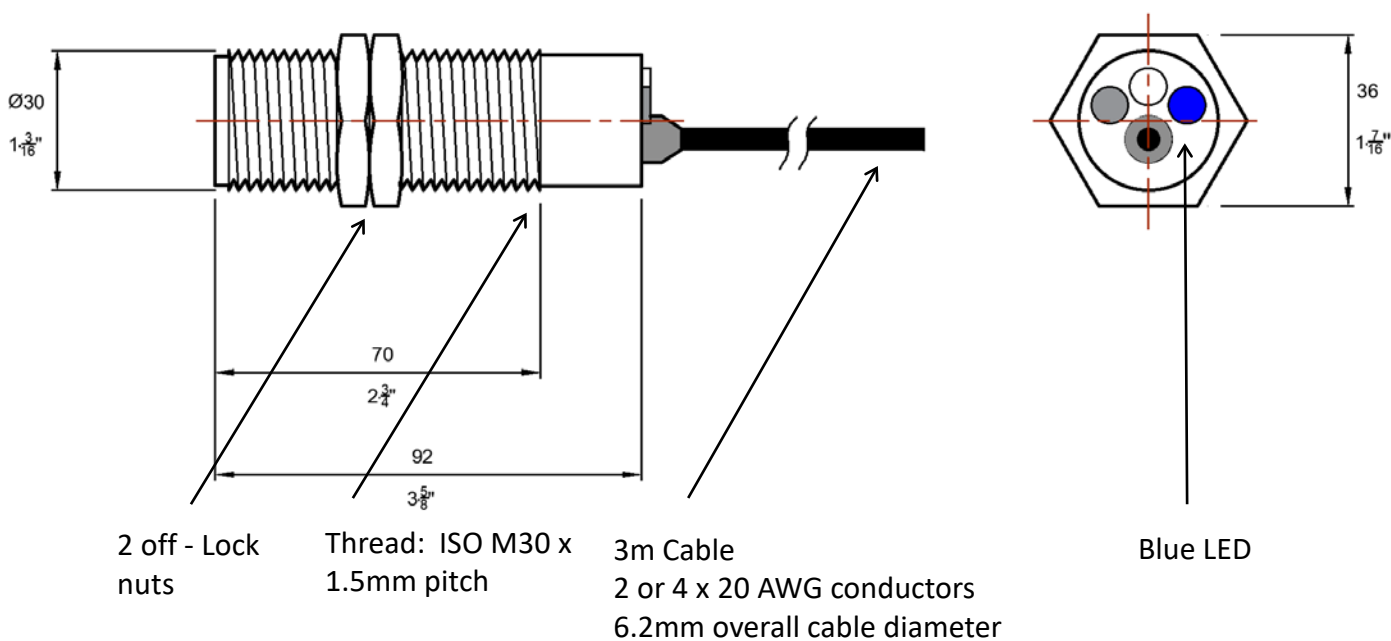
Normally open



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DIMENSIONS



Note: All dimensions are given in mm and inches