BRAIME COMPONENTS

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

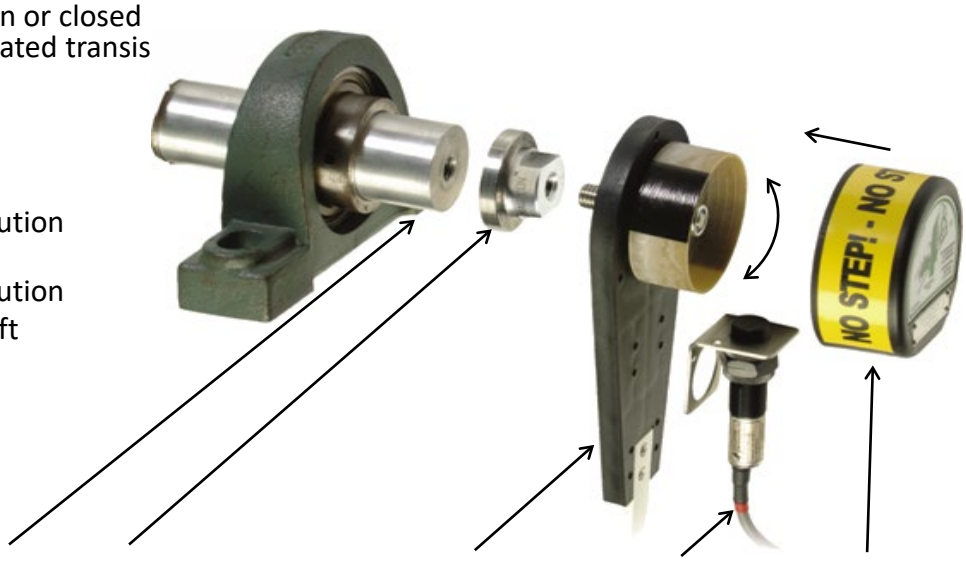
Part numbers:

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

Options:

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

P100 Inductive Sensor
Shown with optional Whirligig and Mag-Con



Rotating shaft | MAG2000M Magnetic connector | Whirligig Rotating target and base plate | P300 Sensor | Whirligig guard

Detailed specification, wiring diagrams and installation/operating instructions available upon request.

Please refer to instruction manual for correct installation.
Information subject to change or correction. February 2021

4B BRAIME COMPONENTS LIMITED - Hunslet Road, Leeds LS10 1JZ, UK
Tel: +44 (0)113 246 1800 Fax: +44 (0)113 243 5021 Email: 4b-uk@go4b.com

Product Datasheet

BRAIME COMPONENTS

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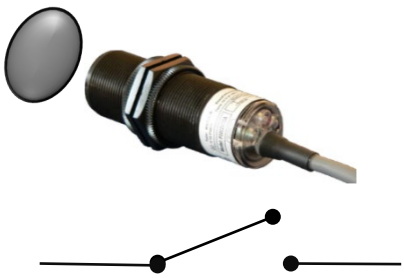
TECHNICAL SPECIFICATIONS

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 IECEx 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 IECEx Ex mb IIIC T100°C Db IP66 1 Ex mb IIC T5 Gb X	I M2 Ex mb I Mb Tamb -15°C to +50°C IECEx Ex mb I Mb Tamb -15°C to +50°C Ex mb IIIC T100°C Db X IP66 OT -15 До +50
Protection	IP66	IP66	IP66

OUTPUT MODES EXPLAINED

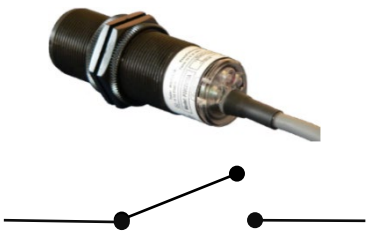
P1003V10AI

Normally closed

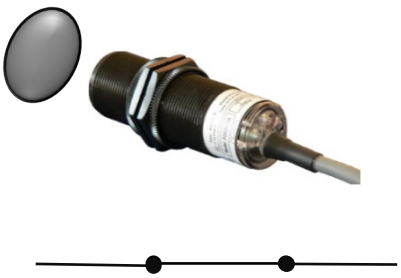


Opens when target is seen

P1004V10AI

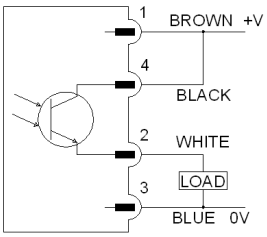


Normally open

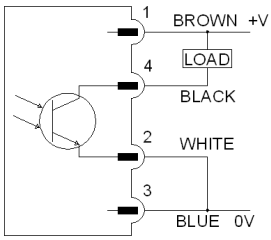


Closes when target is seen

P1003V34AI



Normally closed



Normally open

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www.go4b.com

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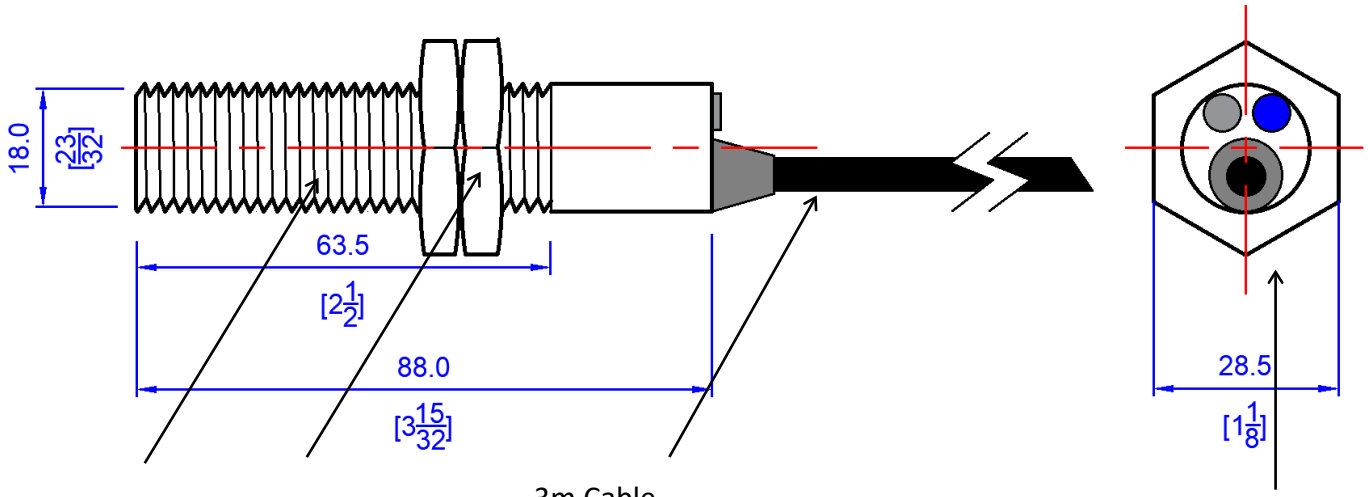
DIMENSIONS



Thread: ISO M18 x 1.0mm pitch

2 off - Lock nuts

3m Cable
2 or 4 x 20 AWG conductors
6.2mm overall cable diameter

Blue LED

Note: All dimensions are given in mm and inches

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