

- Supplied magnet attaches to your shaft end
- Recessed housing fits over shaft/magnet
- Fine adjustment by free rotating clamp ring
- Analog voltage or current output
- IP67 protection grade
- $360^{\circ}$ measuring angle or any fraction

The series MAB22AH is a frictionless angle sensor capable of true $360^{\circ}$ measuring. A provided magnet attaches to your shaft end and housing simply mounts over the magnet. 12 bit resolution and simple interface with analog voltage or current outputs. Suitable for rough environments.


Note: Customers should test and verify device performance in any given application. General specifications values are measured at $+15^{\circ} \mathrm{C} \sim+35^{\circ} \mathrm{C}$. Please consult us if application is in higher or lower temperatures. Shaft modifications are possible, please consult us. Specifications subject to change without notice.

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## P3 America, Inc.

Dimensions (mm), Mounting and Electrical Connections

(4x) M3 x 0.5
threaded screw holes

(4x) ø3.3
through holes


| Cable Specifications Type: UL/cUL-LIYCY Style: 2464/1061 | Single Output |  | Dual Output (redundant) |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Length | 1 meter |  | 1 meter |  |
| Outer diameter | 4.4 mm |  | 5.2 mm |  |
| Lead diameter | 1.0 mm |  | 1.0 mm |  |
| Cross section | (3x) AWG26 |  | (6x) AWG26 |  |
| Terminations | VSUP | red | VSUP1 | red |
|  | OUT | brown | OUT1 | brown |
|  | GND | black | GND1 | black |
|  |  |  | VSUP2 | yellow |
|  |  |  | OUT2 | green |
|  |  |  | GND2 | orange |

## P3 America, Inc.

## Magnet Dimensions (mm)



Note: If your shaft is magnetic, a minimum distance of $>1 \mathrm{~mm}$ must be maintained from end of shaft to magnet.

## Optional Push-On Magnet Holder Dimensions (mm)



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Optional Set Screw Magnet Holder Dimensions (mm)


Note: If your shaft is magnetic, a minimum distance of $>1 \mathrm{~mm}$ must be maintained from end of shaft to magnet.

## Single Turn Hall Effect - Analog

## Electrical Options

| Modified effective electrical angle <br> The measuring range can be programmed from $0-20^{\circ}$ to $0-360^{\circ}$. In the basic type with stop, the zeropoint is always <br> at CCW position. If not specified, the signal level is programmed according EA1A. On request it is also possible to set <br> the zeropoint at CW position. | CCW |
| :--- | :--- |

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