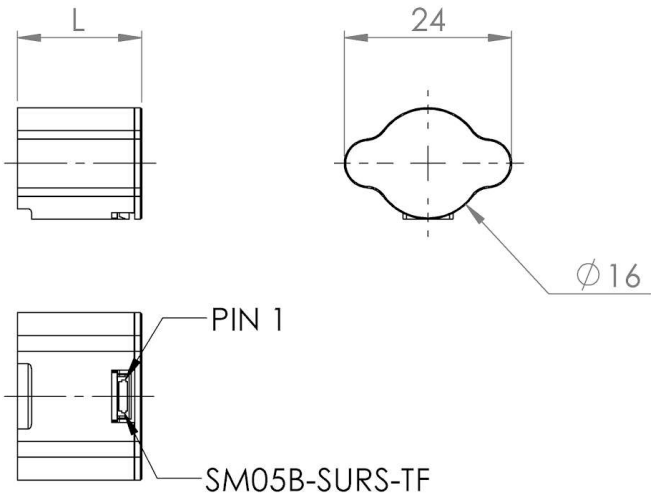
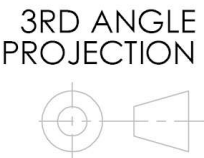


428-IMX Encoder (incremental magnetic)  
Ø28mm / with custom resolutions / connection interfaces

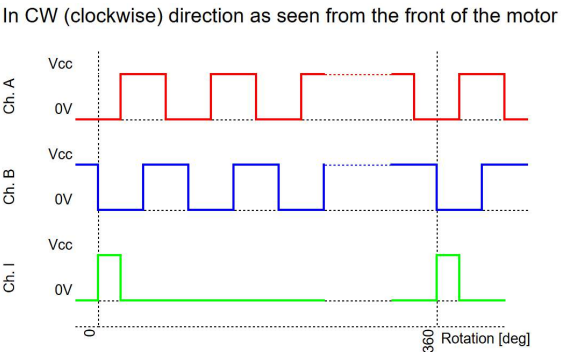


DIMENSIONS ARE IN mm  
SURFACE FINISH: N7  
TOLERANCES:  
LINEAR:  $\pm 0.2$   
ANGULAR:  $\pm 1^\circ$



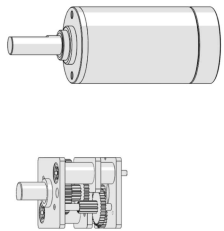
| Key data |                                   | Units            | Standard version      | Custom design                       |
|----------|-----------------------------------|------------------|-----------------------|-------------------------------------|
| B        | Body width                        | mm               | 24                    |                                     |
| C        | Body length (L)                   | mm               | Combination dependent |                                     |
| D        | Encoder technology                |                  | Magnetic              |                                     |
| E        | Encoder type                      |                  | Incremental           |                                     |
| F        | Number of channels                |                  | 3                     | Customizations available on request |
| G        | Output type                       |                  | 2 ch. quadrature      |                                     |
| H        | Index channel                     |                  | Available             |                                     |
| I        | Max. resolution (counts per turn) |                  | 4096                  | Please contact support@pmdri.com    |
| J        | Ambient temperature               | $^\circ\text{C}$ | min -30<br>max +100   |                                     |
| K        | Weight                            | g                | 2.8                   |                                     |

| Specifications                | Units | Encoder Output Signals |
|-------------------------------|-------|------------------------|
| 1 Supply voltage              | V     | 3.3 - 5.0              |
| 2 Typical current consumption | mA    | 10                     |
| 3 Max. motor speed            | RPM   | 30 000                 |
| 4 Connector                   |       | JST SM05B-SURS-TF      |
|                               | Pin 1 | Vcc                    |
|                               | Pin 2 | GND                    |
|                               | Pin 3 | Ch. A                  |
|                               | Pin 4 | Ch. B                  |
|                               | Pin 5 | Ch. I                  |

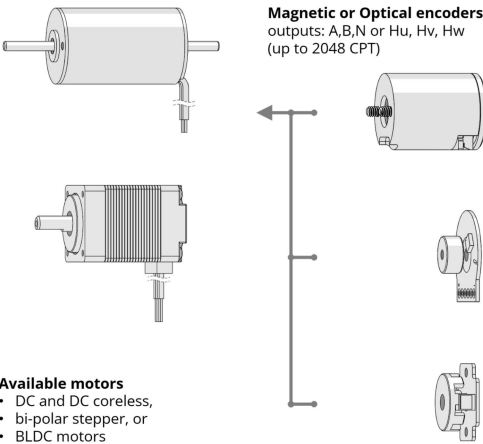


Combinations - contact support@pmdri.com for details

Planetary Gearbox  
Ø10 - 28mm  
10-500mNm Continuous Torque



Spur Gearbox  
Ø12 - 20mm  
5-200mNm Continuous Torque



Available motors  
• DC and DC coreless,  
• bi-polar stepper, or  
• BLDC motors



Encoder only sold as combination with motor / gearbox. Final combination length to be confirmed by Precision Microdrives