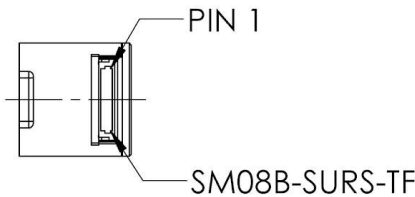
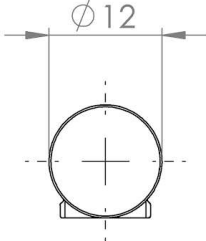
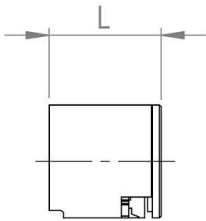


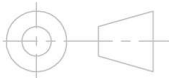
412-IMX Encoder (incremental magnetic)
Ø12mm / with custom resolutions / connection interfaces



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



3RD ANGLE
PROJECTION

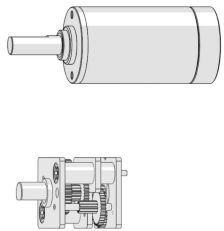


Key data		Standard version		Custom design
B	Body diameter	mm	12	Customizations available on request Please contact support@pmdri.com
C	Body length (L)	mm	Combination dependent	
D	Encoder technology		Magnetic	
E	Encoder type		Incremental	
F	Number of channels		3	
G	Output type		2 ch. quadrature	
H	Index channel		Available	
I	Max. resolution (counts per turn)		4096	
J	Ambient temperature	°C	min	
			-30	
J		°C	max	
			+100	
K	Weight	g	1.5	

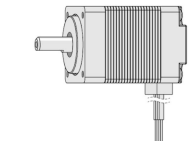
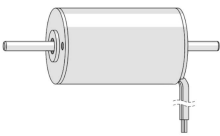
Specifications		Units		Encoder Output Signals
1	Supply voltage	V	3.3 - 5.0	In CW (clockwise) direction as seen from the front of the motor
2	Typical current consumption	mA	10	
3	Max. motor speed	RPM	30 000	
4	Connector		JST SM08B-SURS-TF	
		Pin 1	Vcc	
		Pin 2	GND	
		Pin 3	Ch. A	
		Pin 4	Ch. B	
		Pin 5	Ch. I	
		Pin 6	Hall U	
		Pin 7	Hall V	
		Pin 8	Hall W	

Combinations - contact support@pmdri.com for details

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



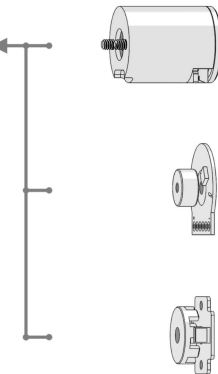
Spur Gearbox
Ø12 - 20mm
5-200mNm Continuous Torque



Available motors

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

Magnetic or Optical encoders
outputs: A,B,N or Hv, Hw
(up to 2048 CPT)



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