Model EN12 12mm Rotary Encoder 2 Bits Gray Code Incremental/Contacting Type Metal Bushing/Plastic Shaft Push-on Switch Option RoHS Compliant



| MODEL STYLES | | | |
|-----------------------------------|--------------------------|--|--|
| Top Adjust, with Switch | EN12-HS | | |
| Top Adjust, without Switch | EN12-HN | | |
| Side Adjust, with Switch | EN12-VS | | |
| Side Adjust, without Switch | EN12-VN | | |
| ELECTRICAL ¹ | | | |
| Pulses (Per Revolution) | 12 & 24 | | |
| Closed Circuit Resistance, Ohms | 3 Ohms, max. | | |
| Contact Rating | 1mA/ 5Vdc | | |
| Operating Current, Maximum | 1mA | | |
| Dielectric Strength | 300Vac/ 1mA, I minute | | |
| Insulation Resistance, Minimum | 100M ohms at 250Vdc/ 1mA | | |
| Sliding Noise (at 60 RPM) | 2.0ms max. | | |
| Contact Bounce (at 15 RPM) | 5.0ms max. | | |
| Operating Speed (RPM) | 100 RPM max. | | |
| Switch Power Rating | 10mA/ 5Vdc | | |
| Switch Contact Resistance | 100 milliohms | | |
| Actual Electrical Travel, Nominal | Continuous | | |
| | | | |

| M | ЕC | HΑ | INI | ICA | |
|---|----|----|-----|----------|--|
| | | | | <u> </u> | |

| Total Mechanical Travel | Continuous |
|--------------------------------------|------------|
| Detents (per Revolution) | 0, 12, 24 |
| Rotational Torque of Detent, Maximum | 1.4 oz-in |
| Switch Operating Force | 550 gf |
| Switch Travel | 0.5mm |

¹ Specifications subject to change without notice.

BI Technologies Corporation 4200 Bonita Place, Fullerton, CA 92835 USA Phone: 714 447 2345 Website: www.bitechnologies.com



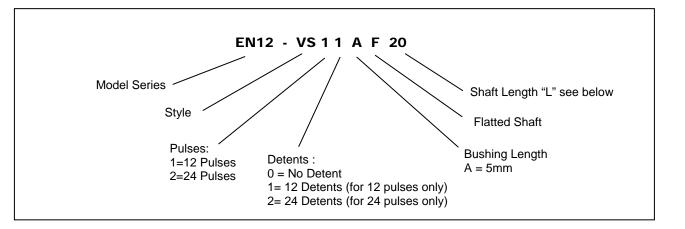
Model EN12

ENVIRONMENTAL

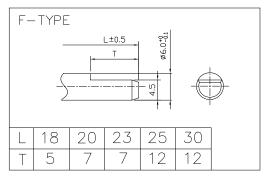
Rotational Life

30,000 cycles

ORDERING INFORMATION²

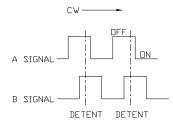


Shaft Length Options



18 Length = 17.5mm 23 Length = 22.5mm

CIRCUIT DIAGRAM



² Contact our customer service for custom designs and features.

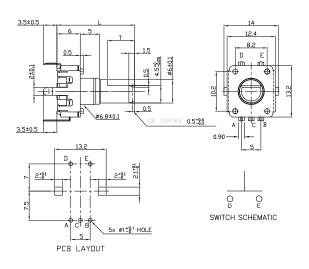
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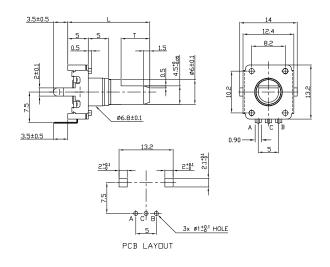
OUTLINE DRAWING

EN12-HS (Top Adjust, with Switch)



EN12-HN (Top Adjust, without Switch)

EN12-VN (Side Adjust, without Switch)



EN12-VS (Side Adjust, with Switch)

