

Main

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|------------------------------|-------------------------------------|
| Range of product | OsiSense XCC |
| Encoder type | Incremental encoder |
| Encoder name | XCC |
| Product specific application | - |
| Diameter | 3.54 in (90 mm) |
| Shaft diameter | 0.47 in (12 mm) |
| Shaft type | Solid shaft |
| Resolution | 3600 points |
| Output stage | Type K |
| Type of output stage | Driver push-pull |
| Electrical connection | 1 male connector M23 radial 12 pins |
| [Us] rated supply voltage | 11...30 V DC |
| Enclosure material | Zamak |

Complementary

| | |
|--------------------------|--|
| Shaft tolerance | G6 |
| Residual ripple | 500 mV |
| Maximum revolution speed | 6000 rpm |
| Shaft moment of inertia | 0.05 lb.in ² (150 g.cm ²) |
| Torque value | 0.09 lbf.in (0.01 N.m) |
| Maximum load | 10 daN axial 20 daN radial |
| Output frequency | 100 kHz |
| Number of channels | 3 |
| Current consumption | 0...75 mA (no-load) |
| Protection type | Reverse polarity protection Short-circuit protection |
| Maximum output current | 40 mA |
| Output level | Low level: 1.5 V maximum (20 mA) High level: V supply - 3 V minimum (20 mA) |
| Surge withstand | 1 kV, level 2 conforming to IEC 61000-4-5 |
| Base material | Aluminium |
| Shaft material | Stainless steel |
| Type of ball bearings | 6001ZZ |
| Product weight | 3 lb(US) (1.36 kg) |

Environment

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|---------------------------------------|--|
| marking | CE |
| ambient air temperature for operation | -4...176 °F (-20...80 °C) |
| ambient air temperature for storage | -22...185 °F (-30...85 °C) |
| IP degree of protection | IP66 conforming to IEC 60529 |
| vibration resistance | 10 gn (f = 10...1000 Hz) conforming to IEC 60068-2-6 |
| shock resistance | 30 gn 11 ms conforming to IEC 60068-2-27 |
| resistance to electrostatic discharge | 8 kV (air discharge) level 3 conforming to IEC 61000-4-2 4 kV (contact discharge) level 3 conforming to IEC 61000-4-2 |
| resistance to electromagnetic fields | 9.14 V/yd (10 V/m) level 3 conforming to IEC 61000-4-3 |
| resistance to fast transients | 1 kV (signal ports) level 3 conforming to IEC 61000-4-4 2 kV (power ports) level 3 conforming to IEC 61000-4-4 |

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Offer Sustainability

| | |
|--|--|
| Not Green Premium product | Not Green Premium product |
| Compliant - since 0701 - Schneider Electric declaration of conformity | Compliant - since 0701 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC above the threshold |
| WARNING: This product can expose you to chemicals including: | WARNING: This product can expose you to chemicals including: |
| Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and | Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and |
| Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. | Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. |
| For more information go to www.p65warnings.ca.gov | For more information go to www.p65warnings.ca.gov |

Contractual warranty

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|-----------------|-----------|
| Warranty period | 18 months |
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Dimensions



- (1) 6 holes M6 x 1 at 120° on 60 PCD, maximum depth: 12 mm

Wiring Diagram

Type K Output Stage

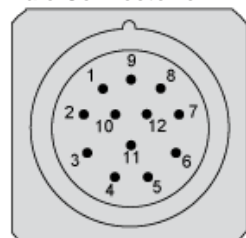


- (1) Encoder
 (2) Processing
 (3) Supply 11 V/30 V

Wiring Diagram

M23, 12-pin Connector Connections

Male Connector on Encoder



| Pin number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---------------|----------------|----|---|----------------|---|----------------|---|---|---|-----|-----|----|
| Signal Supply | A ⁻ | +V | 0 | 0 ⁻ | B | B ⁻ | R | A | R | 0 V | 0 V | +V |

R = reserved, do not connect