

XCC1406PR05R

incremental encoder Ø 40 - solid shaft 6 mm -
500 points - 5V RS422



Main

| | |
|------------------------------|--------------------------|
| Range of product | OsiSense XCC |
| Encoder type | Incremental encoder |
| Encoder name | XCC |
| Product specific application | - |
| Diameter | 40 mm |
| Shaft diameter | 6 mm |
| Shaft type | Solid shaft |
| Resolution | 500 points |
| Output stage | Type R |
| Type of output stage | Driver 5V, RS422 |
| Electrical connection | Cable radial shielded |
| Cable length | 2 m |
| Cable composition | 8 x 0.14 mm ² |
| [Us] rated supply voltage | 5 V DC |
| Supply voltage limits | 4.5...5.5 V DC |
| Enclosure material | Aluminium Zamak |

Complementary

| | |
|--------------------------|---|
| Shaft tolerance | G7 |
| Cable outer diameter | 6 mm |
| Residual ripple | 0...200 mV |
| Maximum revolution speed | 9000 rpm |
| Shaft moment of inertia | 10 g.cm ² |
| Torque value | 0.002 N.m |
| Maximum load | 2 daN radial 1 daN axial |
| Output frequency | 100 kHz |
| Number of channels | 3 |
| Current consumption | 0...100 mA (no-load) |
| Maximum output current | 40 mA |
| Output level | High level: 2.5 V minimum (20 mA) Low level: 0.5 V maximum (20 mA) |
| Surge withstand | 1 kV, level 2 conforming to IEC 61000-4-5 |
| Base material | Aluminium Zamak |
| Shaft material | Aluminium Stainless steel |
| Type of ball bearings | 688AZZ1 |
| Product weight | 0.355 kg |

Environment

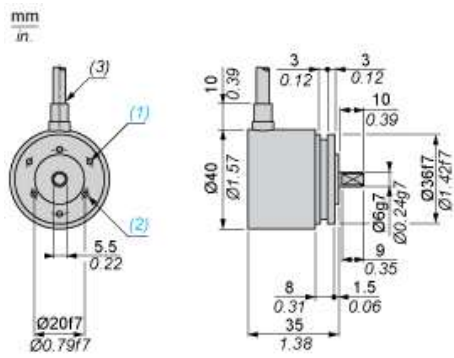
| | |
|---------------------------------------|---|
| Marking | CE |
| Ambient air temperature for operation | -20...80 °C |
| Ambient air temperature for storage | -30...85 °C |
| IP degree of protection | IP54 conforming to IEC 60529 |
| Vibration resistance | 10 gn (f = 10...500 Hz) conforming to IEC 60068-2-6 |

| | |
|---------------------------------------|--|
| Shock resistance | 30 gn for 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 | 10 V/m level 3 conforming to IEC 61000-4-3 |
| Resistance to fast transients | 2 kV (power ports) level 3 conforming to IEC 61000-4-4 1 kV (signal ports) level 3 conforming to IEC 61000-4-4 |

Offer Sustainability

| | |
|--------------------------|---|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0701 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |

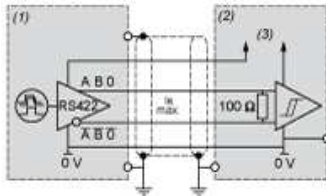
Dimensions



- (1) 3 holes M3 x 0.5 at 120° on 28 PCD, depth: 5 mm
- (2) 3 holes M3 x 0.5 at 120° on 24 PCD, depth: 5 mm
- (3) $\varnothing 6$ cable, length 2 m, minimum bend radius: 30 mm

Wiring Diagram

Type R Output Stage



- (1) Encoder
- (2) Processing
- (3) Supply 5 V

Wiring Diagram

Cable Connections

| Wire colour | BN | RD | VT | BU | YE | OG | GN | BK |
|---------------|----------------|----|----|----------------|----|----------------|----|----|
| Signal Supply | A ⁻ | +V | 0 | 0 ⁻ | B | B ⁻ | A | 0V |

- BN = Brown
- RD = Red
- VT = Violet
- BU = Blue
- YE = Yellow
- OG = Orange
- GN = Green
- BK = Black