

# XCC1510SPA03Y

incremental encoder Ø58 stainless steel - solid shaft 10mm - 360pts - push-pull



## Main

|                              |                          |
|------------------------------|--------------------------|
| Range of product             | OsiSense XCC             |
| Encoder type                 | Incremental encoder      |
| Encoder name                 | XCC                      |
| Product specific application | Food and beverage        |
| Diameter                     | 58 mm                    |
| Shaft diameter               | 10 mm                    |
| Shaft type                   | Solid shaft              |
| Resolution                   | 360 points               |
| Output stage                 | Type Y                   |
| Type of output stage         | Driver push-pull         |
| Electrical connection        | Cable axial shielded     |
| Cable length                 | 2 m                      |
| Cable composition            | 8 x 0.14 mm <sup>2</sup> |
| Cable insulation material    | Silicone                 |
| [Us] rated supply voltage    | 5...30 V DC              |
| Enclosure material           | Stainless steel 316 L    |

## Complementary

|                          |  |
|--------------------------|--|
| Shaft tolerance          | G6   |
| Cable outer diameter     | 6 mm   |
| Residual ripple          | 0...500 mV   |
| Maximum revolution speed | 3000 rpm   |
| Shaft moment of inertia  | 12 g.cm <sup>2</sup>   |
| Torque value             | 0.09 N.m   |
| Maximum load             | 25 daN radial<br>50 daN axial  |
| Output frequency         | 300 kHz  |
| Number of channels       | 3  |
| Current consumption      | 0...75 mA (no-load)  |
| Protection type          | Reverse polarity protection<br>Short-circuit protection                          |
| Maximum output current   | 40 mA  |
| Output level             | High level: V supply - 2.5 V minimum (20 mA)<br>Low level: 0.5 V maximum (20 mA) |
| Surge withstand          | 1 kV, level 2 conforming to IEC 61000-4-5  |
| Base material            | Stainless steel 316 L  |
| Shaft material           | Stainless steel 316 L  |
| Type of ball bearings    | 6000   |
| Product weight           | 0.86 kg  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

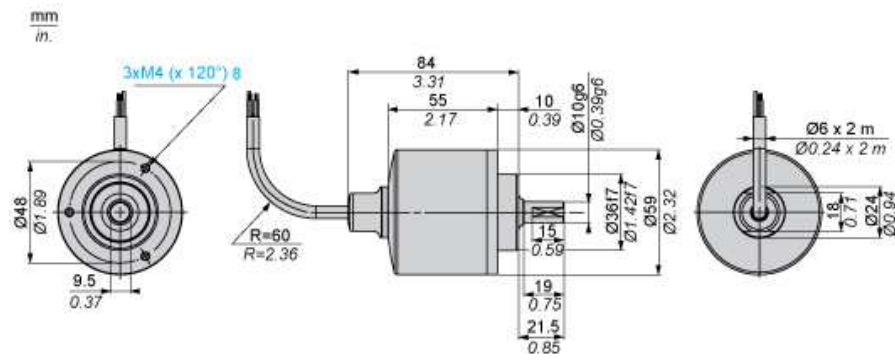
## Environment

|                                       |  |
|---------------------------------------|--|
| Marking                               | CE   |
| Ambient air temperature for operation | -30...100 °C   |
| Ambient air temperature for storage   | -40...100 °C   |
| IP degree of protection               | IP69K conforming to IEC 60529<br>IP68 conforming to IEC 60529  |
| Vibration resistance                  | 10 gn (f = 55...2000 Hz) conforming to IEC 60068-2-6   |
| Shock resistance                      | 50 gn for 6 ms conforming to IEC 60068-2-27  |
| Resistance to electrostatic discharge | 8 kV (air discharge) level 3 conforming to IEC 61000-4-2<br>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<br>1 kV (signal ports) level 3 conforming to IEC 61000-4-4        |

## Offer Sustainability

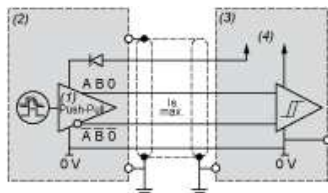
|                          |   |
|--------------------------|---|
| Sustainable offer status | Not Green Premium product   |
| RoHS (date code: YYWW)   | Compliant - since 1203 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                    | Reference not containing SVHC above the threshold                                     |

Dimensions



Wiring Diagram

Type Y Output Stage



- (1) RS 422 compatible on 5 V supply
- (2) Encoder
- (3) Processing
- (4) Supply 5 V/30 V

Wiring Diagram

Cable Connections

| Wire colour   | BN             | RD | VT | BU             | YE | OG             | GN | BK |
|---------------|----------------|----|----|----------------|----|----------------|----|----|
| Signal Supply | A <sup>-</sup> | +V | 0  | 0 <sup>-</sup> | B  | B <sup>-</sup> | A  | 0V |

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