

XCC1510PS01Y

incremental encoder Ø 58 - solid shaft 10 mm -
100 points - push-pull



Main

Range of product	OsiSense XCC
Encoder type	Incremental encoder
Encoder name	XCC
Product specific application	-
Diameter	58 mm
Shaft diameter	10 mm
Shaft type	Solid shaft
Resolution	100 points
Output stage	Type Y
Type of output stage	Driver push-pull
Electrical connection	1 male connector M23 radial 12 pins
[Us] rated supply voltage	5...30 V DC
Enclosure material	Zamak

Complementary

Residual ripple	0...500 mV
Maximum revolution speed	9000 rpm
Shaft moment of inertia	10 g.cm ²
Torque value	0.004 N.m
Maximum load	5 daN axial 10 daN radial
Output frequency	300 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	High level: V supply - 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
Shaft material	Stainless steel
Type of ball bearings	6000ZZ1
Product weight	0.465 kg

Environment

Marking	CE
Ambient air temperature for operation	-30...100 °C
Ambient air temperature for storage	-30...85 °C
IP degree of protection	IP65 conforming to IEC 60529
Vibration resistance	10 gn (f = 55...2000 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

Technical drawing of the 1000 Series 1/2" (25.4 mm) ball valve. The drawing includes a front view (left) and a side view (right). The front view shows a circular body with a central bore and four mounting holes. The side view shows the valve's profile, including the handle and the internal ball mechanism. Dimensions are provided in both millimeters (mm) and inches (in.).

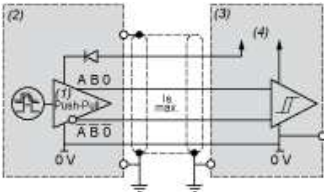
Dimensions (mm / in.):

- Top flange outer diameter: $\varnothing 25$ / 0.98
- Top flange thickness: 2 / 0.08
- Top flange inner diameter: 8 / 0.31
- Top flange to body distance: 19 / 0.75
- Body outer diameter: $\varnothing 36 f7$ / 1.4217
- Body thickness: 9.5 / 0.37
- Body to handle distance: 54 / 2.13
- Body to handle distance (alternative): 36.5 / 1.44
- Handle length: 10 / 0.39
- Handle to body distance: 15 / 0.59
- Handle outer diameter: $\varnothing 10$ / 0.39
- Handle inner diameter: $\varnothing 10$ / 0.39
- Handle to body distance (alternative): 31.75 / 1.25
- Handle to body distance (alternative): 24.5 / 0.97
- Handle to body distance (alternative): 58.5 / 2.30
- Handle to body distance (alternative): 1.10 / 0.04

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Wiring Diagram

Type Y Output Stage

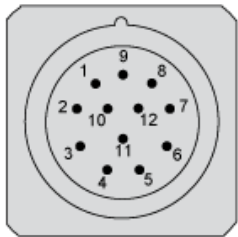


- (1) RS 422 compatible on 5 V supply
- (2) Encoder
- (3) Processing
- (4) Supply 5 V/30 V

Wiring Diagram

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