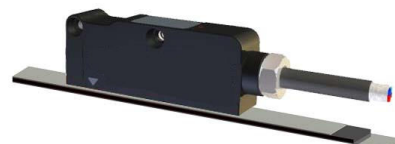


Code CST50	Project B25-D	Release C	TECHNICAL DATASHEET
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MAGNETIC SENSOR CSA - 2 Series

GENERAL FEATURES

- Linear magnetic sensor, with direct reading of the absolute position.
- Resolutions up to 1 μm .
- Measuring length up to 30 000 mm.
- CANopen protocol.
- Contactless reading.
- Extremely easy and fast mounting of the entire measuring system, with wide alignment tolerances.
- Small size, to allow installation in narrow spaces.
- Axial or radial cable output.

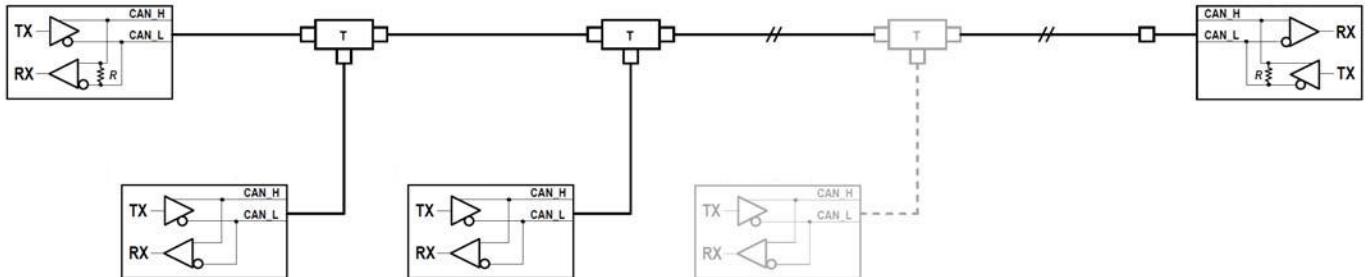


MECHANICAL AND ELECTRICAL CHARACTERISTICS			
MECHANICAL	Model. CSA		2
	Pole pitch		2+2 mm
ELECTRICAL	Repeatability		± 1 increment
	Serial interface		CAN bus
ELECTRICAL	Protocol - Profile		CANopen: encoder DS406 V. 3.1 communication DS301 V. 4.02 LSS service DS305 V.2.0
	Resolution absolute position		100 - 50 - 10 - 5 - 1 μm
ELECTRICAL	Accuracy		$\pm 15 \mu\text{m}$
	Measuring length ML		up to 30 000 mm
ELECTRICAL	Max. traversing speed		300 m/min *
	Vibration resistance (EN 60068-2-6)		200 m/s ² [55 \div 2 000 Hz]
ELECTRICAL	Protection class (EN 60529)		IP 67
	Operating temperature		0 °C \div 50° C
ELECTRICAL	Storage temperature		-20 °C \div 70° C
	Relative humidity		100%
ELECTRICAL	Current consumption with 24 Vdc		60 mA _{MAX}
	Electrical connections		see related table
ELECTRICAL	Electrical protections		inversion of polarity and short circuits
	Weight		85 g

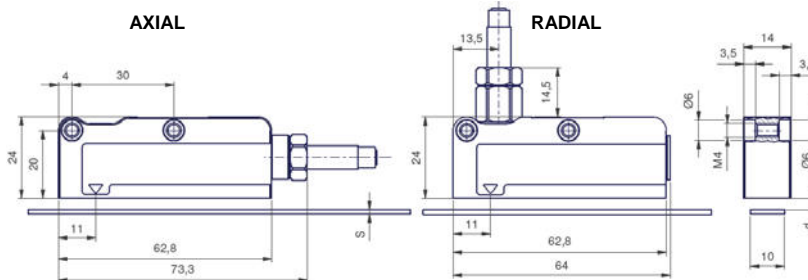
* With a 1 μm resolution, the maximum traversing speed becomes 90 m/min.

Code CST50	Project B25-D	Release C	TECHNICAL DATASHEET
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CABLE



SENSOR DIMENSIONS

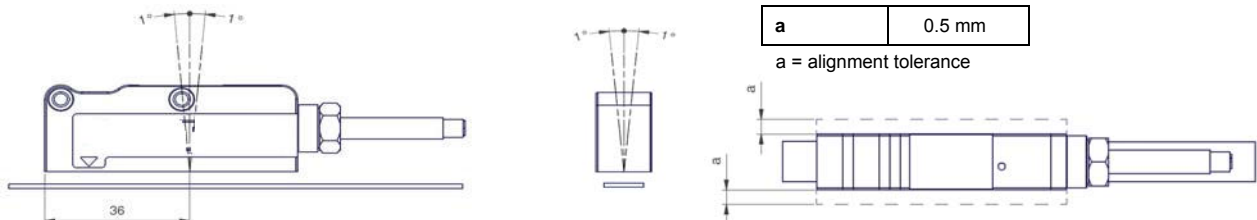


values in mm	CP200A	CP200A + CV103	CP200A + SP202
s	1.3	1.6	2.1
d	0.3 ÷ 1	0.7 _{MAX}	0.2 _{MAX}

s = thickness

d = distance to be maintained between sensor and surface of the magnetic band (or eventual cover/support)

SENSOR ALIGNMENT TOLERANCES



ORDERING CODE

MODEL	POLE PITCH	RESOLUTION	CABLE OUTPUT	OUTPUT SIGNALS	CABLE LENGTH, CABLE TYPE	CONNECTOR CONNECTION	SPECIAL
CSA	2	1	A	C	M0.3 / C	CH0	
2 = 2+2 mm		10 = 10 µm 5 = 5 µm 1 = 1 µm	A = axial R = radial	C = CANopen	M0.3 = 0.3 m (standard) C = CAN bus	CH0 = connector 5 Pin M12 SC = without connector	No cod. = standard SNxx = special nn

Standard **ABSOLUTE MAGNETIC SENSOR CSA 21A C M0.3 / C CH0**