

Code	Project	Release			
CST12	B25-D	К	TECHNICA	L DATASHEET	
		MAGNETIC	C SENSOR CSM - 1 Se	eries	
SENERAL (CHARACTE	ERISTICS			
Magnetic senso	r for linear and ar	ngular reading.			
Resolutions up	to 0.5 μm.				
Contactless rea	0				
alignment tolera		-	asuring system, with wide	CHICODE	
-		•	errite tape, with pole pitch		
1+1 mm. The	plastoferrite is		nless steel tape, already		
To be used with	• •	, , , ,			
	-				
	AL AND EL		HARACTERISTICS Model. CSM	1	
Magnetic sensor wit					
 Possibility to fix the magnetic sensor with M4 screws or with through M3 screws. 			Pole pitch	1+1 mm	
Wide alignment tole	rances.		Reference indexes	C = constant step (every 1 mm)	
LECTRICAL Very flexible power of	cable.		Resolution	10 - 5 - 1 - 0.5 μm	
Reading through		based on magneto	Accuracy **	± 6 μm	
High signal stability.		f power supply polarity	Max. traversing speed ***	0.6 m/s (res. 0.5 μm) 6 m/s (res. 10 μ	
and short circuits or	output port.		Max. frequency	300 kHz (up to 500 kHz on request)	
		eed exceeds 1 m/s, it is ontinuous movements.	Repeatability	± 1 increment	
CABLE:			A, B and I₀ output signals	LINE DRIVER / PUSH-PULL	
		h the following cable: C external sheath, with			
low friction coeffic	ient, oil resistant;		Vibration resistance (EN 60068-2-6)	300 m/s ² [55 ÷ 2,000 Hz]	
	n: power supply 0. signals 0.14 mm	1 ⁴ .	Shock resistance (EN 60068-2-27)	1,000 m/s ² (11 ms)	
UR cable or cable wit		request. e lower than 60 mm.	Protection class (EN 60529)	IP 67	
LINE			Operating temperature	$0 \circ C \div 50 \circ C$	
DRIVER	PUSH-PULL	COLOR	Storage temperature	-20 °C ÷ 80 °C	
A	A	Green	Relative humidity	100%	
Ā		Yellow	Power supply	5 ÷ 28 Vdc ± 5%	
B	В	Grey Pink	Current consumption without load	60 mA _{MAX}	
B I₀	l _o	Blue			
I ₀	'U	Red	Current consumption with load	140 mA _{MAX} (with 5 V and R = 120 Ω) 90 mA _{MAX} (with 28 V and R = 1.2 k Ω)	
+ V	+ V	Brown	Electrical connections	see related table	
0 V	0 V	White	Electrical protections		
				inversion of polarity and short circuits	

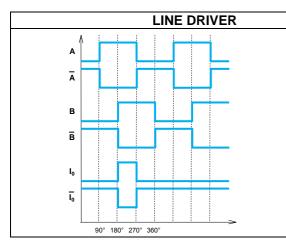
 $L_{max} = 10 \text{ m}$ $L_{max} = 100 \text{ m}$ sensor cable 2 m sensor cable + cable extension *

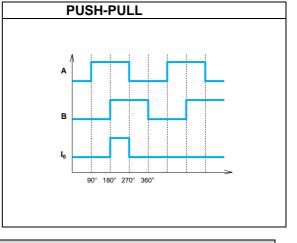
Cable extensions need to have a 0.5 mm² section for power supply conductors.
 To obtain the declared accuracy values, it is necessary to respect the alignment tolerances prescribed by the Manufacturer. Better accuracy can be obtained by reducing the gap between the sensor and the magnetic band.
 The indicated speeds are referred to a maximum frequency of 300 kHz.



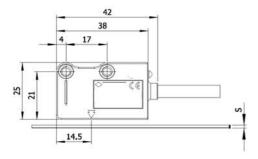
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CST12	B25-D	К	TECHNICAL DATASHEET

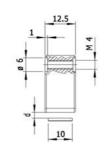
OUTPUT SIGNALS





SENSOR DIMENSIONS



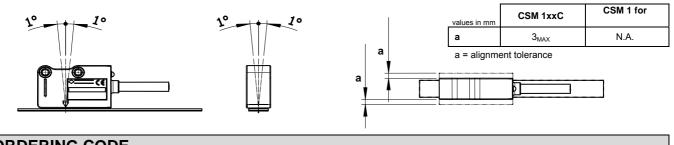


values in mm	CP100	CP100 + CV103	CP100 + SP202	CP100 + GVS 100
s	1.3	1.6	2.1	7.6
d	0.1 ÷ 0.4	N.A.	N.A.	N.A.

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	REFERENCE INDEXES	POWER SUPPLY	OUTPUT SIGNALS	CABLE	CONNECTION	PROGRAMMING	SPECIAL
CSM	1	1	С	528V	L	M02 / N	SC	F	
1	1 = 1+1 mm	10 = 10 μm 5 = 5 μm 1 = 1 μm 05 = 0.5 μm	C = constant step	528V = 5÷28 Vdc 5285 = 5÷28 Vdc with 5 V output	L = LINE DRIVER Q = PUSH-PULL	M01/N = 1 m M02/N = 2 m M03/N = 3 m	SC = without connector Cnn = progressive	F = fixed V = variable	No cod = standard SNxx = special nn

Standard 🗢 MAGNETIC SENSOR CSM 1 1 C 528V L M02 / N SC F