

Code CST32	Project B25-D	Release	TECHNICA	L DATASHEET			
MAGNETIC SENSOR CSM - 254 Series							
				Jenes			
GENERAL	CHARACTE						
 Magnetic senso Resolutions up Contactless rea Extremely easy 	to 24,000 DPI. ding.	0	suring system, with wide	0 0			
alignment tolera				CHICODE			
2.54+2.54 mm. provided with th	composed by a The plastoferrite e adhesive tape,	magnetized plastofer is supported by a sta for an easy application	rite tape, with pole pitch inless steel tape, already n on the machine.				
• To be used with			HARACTERISTICS				
			Model. CSM	254			
Magnetic sensor wir Possibility to fix the		M4 screws or with	Pole pitch	2.54+2.54 mm			
through M3 screws. Wide alignment tole	Ū.		Reference indexes	C = constant step (every 2.54 mm)			
LECTRICAL				600 - 1,200 - 2,400 - 3,000 - 4,800 - 6,000 -			
Very flexible power cable.Reading through positioning sensor based on magneto			Resolution	9,600 - 12,000 - 24,000 DPI			
resistance, with AM High signal stability.	R effect (Magnetic Ar	nisotropy).	Accuracy **	± 10 μm			
Electrical protection and short circuits or		f power supply polarity	Max. traversing speed ***	1.2 m/s (24,000 DPI) 14 m/s (1,200 DPI)			
		eed exceeds 1 m/s, it is ontinuous movements.	Max. frequency	300 kHz (up to 500 kHz on request)			
CABLE:			Repeatability	± 1 increment			
		h the following cable:	A, B and I ₀ output signals	LINE DRIVER / PUSH-PULL			
low friction coeffic	ient, oil resistant;	C external sheath, with	Vibration resistance (EN 60068-2-6)	300 m/s ² [55 ÷ 2,000 Hz]			
	n: power supply 0. signals 0.14 mm	1 ² .	Shock resistance (EN 60068-2-27)	1,000 m/s ² (11 ms)			
UR cable or cable wit 'he cable's bending		request. e lower than 60 mm.	Protection class (EN 60529)	IP 67			
LINE DRIVER	PUSH-PULL	CONDUCTOR COLOR	Operating temperature	0 °C ÷ 50° C			
A	A	Green	Storage temperature	-20 °C ÷ 80° C			
Ā		Yellow	Relative humidity	100%			
В	В	Grey	Power supply	$5\div 28$ Vdc $\pm 5\%$			
B		Pink	Current consumption without load	60 mA _{MAX}			
l _o	I ₀	Blue Red		140 mA _{MAX} (with 5 V and R = 120 Ω)			
1		Brown	Current consumption with load	90 mA _{MAX} (with 28 V and R = 1.2 k Ω)			
+ V	+ v						
	+ V 0 V	White	Electrical connections	see related table			

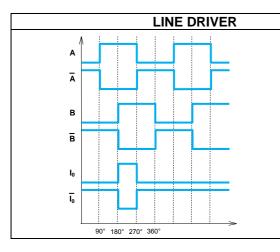
 $L_{max} = 10 \text{ m}$ $L_{max} = 100 \text{ m}$ sensor cable 2 m sensor cable + cable extension *

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. With 600 DPI resolution, the accuracy is ± 14 µm.
 The indicated speeds are referred to a maximum frequency of 300 kHz.



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OUTPUT SIGNALS

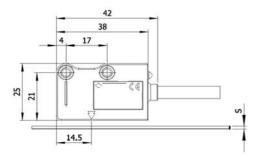


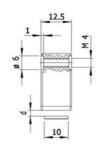
в I₀ 90° 180° 270° 360°

PUSH-PULL

SENSOR DIMENSIONS

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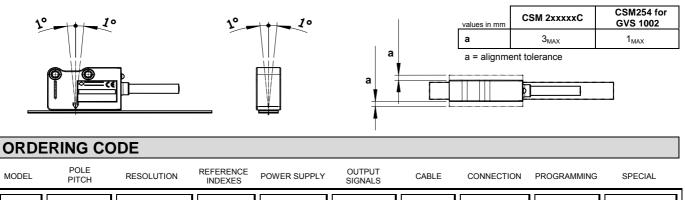


values in mm	CP254	CP254 + CV103	CP254 + SP202	CP254 + GVS 1002 7.6	
s	1.3	1.6	2.1		
d	0.2 ÷ 1.4	1.1 _{MAX}	0.6 _{MAX}	0.3 ÷ 1	

s = thickness

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

SENSOR ALIGNMENT TOLERANCES



CSM	254	600	С	528V	L	M02 / N	SC	F	
	254 = 2.54+2.54 mm	a 24000 = 24,000 DPI 6000 = 6,000 DPI 1200 = 1,200 DPI 600 = 600 DPI	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 = fixedV = variableG = for GVS 100	No cod = standard SNxx = special nn

Standard 🌝 MAGNETIC SENSOR CSM 254 600 C 528V L M02 / N SC F