





dimensions in mm

for torque pin please refer to Accessories

torque pin is included

**ELECTRICAL SPECIFICATIONS**

<b>Resolution</b>	2 ... 4096 / 2 ... 8192 ppr programmable during commissioning
<b>Power supply<sup>1</sup></b>	11,4 ... 29,4 V DC (reverse polarity protection)
<b>Current consumption without load</b>	300 mA
<b>Electrical interface<sup>2</sup></b>	RS 485 galvanically isolated
<b>Max bus frequency</b>	12 Mbaud
<b>Diagnostic features</b>	frequency warning position warning / alarm please refer to installation manual for more informations
<b>Max frequency</b>	max 25 kHz LSB
<b>Code type</b>	binary
<b>Counting direction</b>	programmable during commissioning
<b>Start-up time</b>	500 ms
<b>Accuracy</b>	± 1/2 LSB
<b>Electromagnetic compatibility</b>	according to 2014/30/EU directive
<b>RoHS</b>	according to 2015/863/EU directive
<b>UL / CSA</b>	certificate n. E212495

**MECHANICAL SPECIFICATIONS**

<b>Bore diameter</b>	Ø 8* / 9,52 (3/8")* / 10* / 12* / 14 / 15 mm * with supplied shaft adapter
<b>Enclosure rating</b>	IP 54 (IEC 60529)
<b>Max rotation speed</b>	3000 rpm
<b>Shock</b>	50 G, 11 ms (IEC 60068-2-27)
<b>Vibration</b>	10 G, 10 ... 2000 Hz (IEC 60068-2-6)
<b>Moment of inertia</b>	5 x 10 <sup>-6</sup> kgm <sup>2</sup> (119 x 10 <sup>-6</sup> lbf <sup>2</sup> )
<b>Starting torque (at +20°C / +68°F)</b>	< 0,02 Nm (2,83 Ozin)
<b>Bearing stage material</b>	EN-AW 2011 aluminum
<b>Shaft material</b>	1.4305 / AISI 303 stainless steel
<b>Housing material</b>	painted aluminium
<b>Bearings</b>	n.2 ball bearings
<b>Bearings life</b>	10 <sup>9</sup> revolutions
<b>Operating temperature<sup>3,4</sup></b>	0° ... +60°C (+32° ... +140°F)
<b>Storage temperature<sup>4</sup></b>	-15° ... +70°C (+5° ... +158°F)
<b>Fixing torque for collar clamping</b>	1,5 Nm (212 Ozin) recommended
<b>Weight</b>	650 g (22,93 oz)

**CONNECTIONS**

Function	POWER	LINE OUT	LINE IN
+ V DC	2		
0 V	4		
A		2	
B		4	
A			2
B			4

<sup>1</sup> as measured at the transducer without cable influences  
<sup>2</sup> for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section  
<sup>3</sup> measured on the transducer flange  
<sup>4</sup> condensation not allowed

POWER connector (5 pin) M12 A coded view solder side FV    LINE OUT - female (5 pin) M12 B coded solder side view FV    LINE IN - male (5 pin) M12 B coded solder side view MV

