HWI 103

Robust incremental hollow shaft encoder for direct mounting on existing shafts of 12-25,4 mm in diameter.
This encoder simultaneously features the advantage of requiring little space while meeting the highst of machanical demands.

Electrical Specifications:

Max. pulse frequency : 50 kHz
Permissible temp. range: -20°. . . .+60° C

Supply voltage: 11V. . . .24V DC +20 %
Max. current consumption: - 80 mA (without load)
Max. fan-out: 30 mA (per channell)
Residual ripple: max. ± 5% U_B

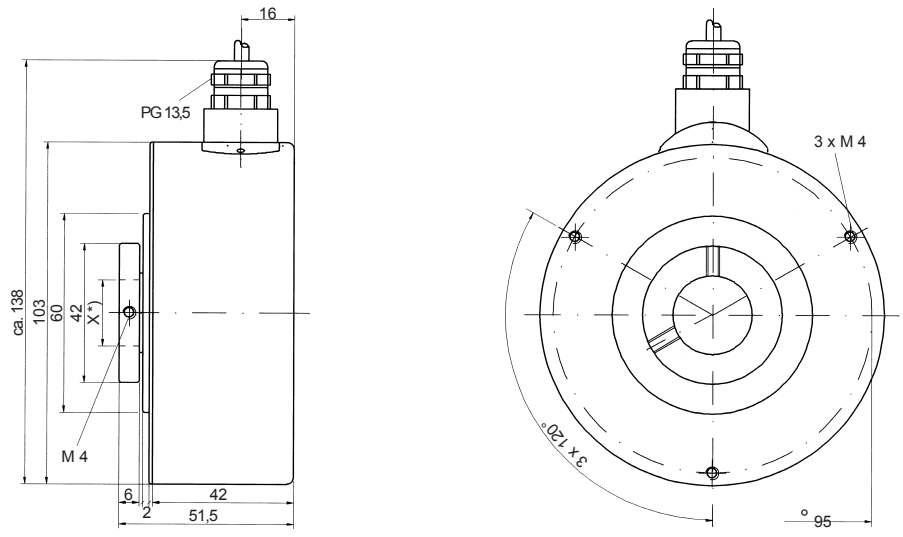
Supply voltage: 5V DC ± 5%
Max. current consumption: - 80 mA

Mechaical Specifications:

Flange /Enclosure: Aluminium
Hollow Shaft: Stainless steel
Shaft seal: Oil/Saltwater-resistant
Bearing: Deep groove ball bearing
Weight: ca. 0,8 kg
System of protection: IP 65
Max. speed: 6000 U/min
Torque: ca. 15 Ncm at 25° C
ca. 50 Ncm at 20° C

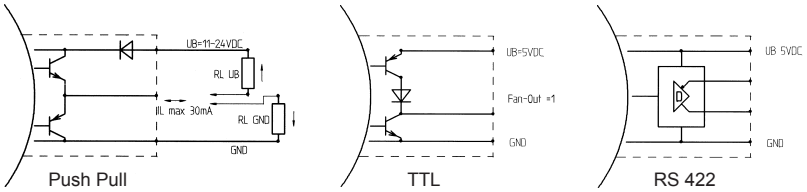
Mechanical Dimensions:

Mounting clip see page 64



*) Toleranz = H 7

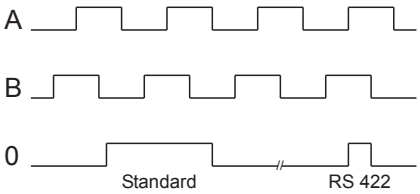
Output Circuits:



Push Pull | TTL | RS 422

Order no.: 1 | 3 | 6

Signal Outputs:



Two square pulse trains offset by 90° el,
with channel A lagging in clockwise rotation..

Reference pulse 0 once per revolution.
Random in position and length. Linked with RS 422.

All channels can also be inverted.

Pin configuration:

		GND	+ UB	A	B	$\bar{A}$	$\bar{B}$	0	$\bar{0}$
Typ of connection 00	Color code acc. DIN 47100)	white	brown	green	yellow			grey	
,, 00	(Color code acc. DIN 47100)	white	brown	green	yellow	grey	pink	blue	rot
,, 01		black	blue	brown	beige			yellow	
,, 01		black	blue	brown	beige	yellow	green	pink	violett
,, 07		1	2	3	4	(5)	(6)	5	6
,, 12, 54		1	2	3	4	5	6	7	8

Order No:

HWI 103 S – [ ][ ][1][R][ ][ ] – [ ] Pulse no. 1. . . .3600

Enclosure	Shaft	Signal Output	Catsch	Position of connection /Type of connection (see page 63)	Output Circuit
S = Standard	12 = 12 mm 14 = 14 mm 15 = 15 mm 16 = 16 mm 18 = 18 mm 19 = 19 mm 20 = 20 mm 22 = 22 mm 24 = 24 mm 25 = 25 mm 75 = 25,4 mm	1 = A 2 = A,B 3 = A,B,0 4 = A,$\bar{A}$ 5 = A, B / $\bar{A}$,$\bar{B}$ 6 = A,B,0 / $\bar{A}$,$\bar{B}$,$\bar{0}$ 7 = A,0 8 = A,0 / $\bar{A}$,$\bar{0}$ 9 = A,B,0,$\bar{0}$	1 = Stud screws	Standard: R = radial: 00, 01, 07, 12, 54 matching plug with redy made cable upon request	1 = Push Pull 30mA 3 = TTL 6 = RS 422 7 = UB 24V DC-Output. 5V TTL 8 = Push Pull 100mA 9 = UB 24V DC-Output. RS 422

see page 56 for mechanical accessories

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