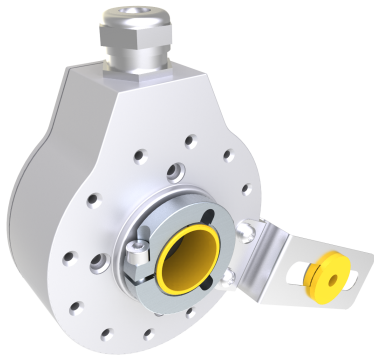




Compact Hollow shaft encoder, Incremental

- Robust encoder in compact design
- Total build length 55 mm
- Through-going hollow shaft with insulated peek insert



Mechanical data

Operating temperature	-40 °C...85 °C
Ingress protection class [IEC 60529]	IP67 (IP66 at shaft inlet)
Vibration [IEC 60068-2-64]	≤ 200 m/s ²
Shock [IEC 60068-2-27]	≤ 1500 m/s ²
Shaft load max (axial/radial)	50 N / 100 N
Rotational speed max	6000 rpm
Shaft material	Stainless steel with insulated peek insert
Cover material	Aluminium (anodized)
Weight	1000 g

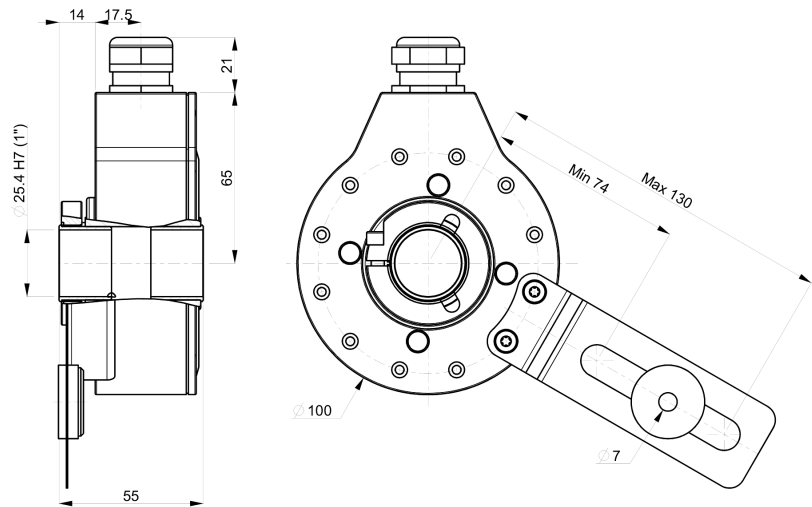
Encoder configuration

Code key	703019509
Type	CHI
Model	703
Shaft type	Ø1 inch through-going hollow shaft
Flange type	87-flange
Resolution	1024 ppr
Power supply	9-30 Vdc
Output signal	High Current HTL (HCHTL)
Connection type	Cable
Connecting direction	Radial
Cable length	1.50 m
Number of channels	6 (S00, S00\, S90, S90\, Sref, Sref\)
Torque Support	Tether arm with insulated peek insert

Electrical data

Cable gland dimension	M20 for Ø8-11 mm cables
Polarity protected	Yes
Short circuit protected incremental outputs	Yes
Current consumption (No load)	60 mA at 24 Vdc (Max. 80 mA)
Incremental output load (max)	± 40 mA
Output frequency max	200 kHz
Cable length max	350 m at 100 kHz
Channel separation	90 °el ± 25 °el
Dividing error	± 50 °el

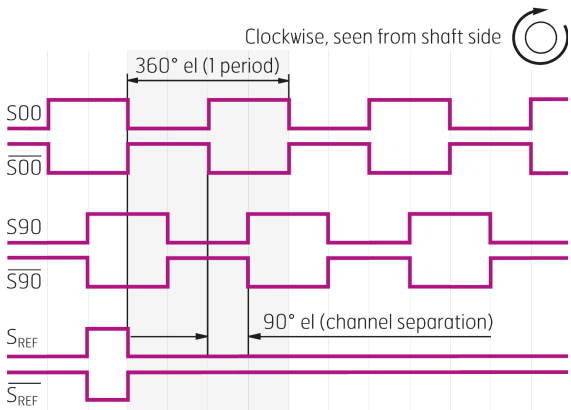
Dimensions



Pin Configuration

Function	Colour
S90	Green
S90 inverted	White
S00 inverted	Black
S00	Yellow
+E Volt	Red
0 Volt	Blue
Sref	Brown
Sref inverted	Violet
STATUS	Grey
NC	Pink
Case	Shield

Output signal



Order information

Part number	1072105-01
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