**Miniature 303 Shaft encoder, Incremental**

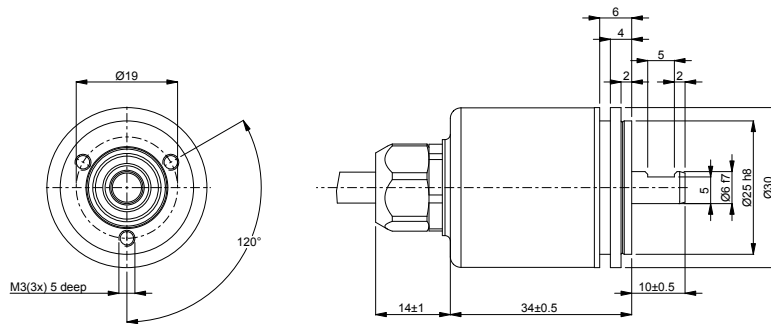
- 30mm diameter
- 6 short-circuit protected outputs
- IP 67 at housing
- Shock and vibration protected
- Status output for warning indication

**Technical data**

Operating temperature	-40 °C .. +70 °C
Ingress protection class [IEC 60529]	IP67
Vibration [IEC 60068-2-6]	≤ 200 m/s ²
Shock [IEC 60068-2-27]	≤ 3000 m/s ²
Cover material	Aluminium (anodized)
Weight	70 g
Shaft load (axial/radial)	10 N / 10 N
Rotational speed max	6000 rpm
Shaft material	Stainless steel
Short circuit protected	Yes
Polarity protected	Yes
Current consumption	10 mA at 24 Vdc (Max. 70 mA)
Output load	±20 mA
Output frequency max	200 kHz
Cable length max	50 m at 50 kHz
Channel separation	90° el ± 25° el
Dividing error	±50° el

Encoder configuration

Type	MSI
Model	303 Standard
Shaft type	Ø6 mm with partial flat
Flange type	31-flange
Resolution	500
Power supply	9-36 Vdc
Output signal	HTL
Connection type	Cable
Connecting direction	Axial
Cable length	1.50 m

Dimensions**Output signals****Pin configuration**

Function	Colour
S00	Yellow
S00 inverted	Black
S90	Green
S90 inverted	White
Sref	Brown
Sref inverted	Violet
+E Volt	Red
0V	Blue
Status	Grey
Chassis	Shield

Ordering information

Part number

649084-02