



### X-heavy duty Shaft encoder, Incremental

- Performance encoder for heavy duty industries
- Euro-flange and solid shaft 11 mm with key nut
- High vibration and shock resistance



### Mechanical data

Operating temperature	-20 °C...+85 °C
Ingress protection class [IEC 60529]	IP67 (IP66 at shaft inlet)
Vibration [IEC 60068-2-64]	≤ 20 g, 55-2000 Hz
Shock [IEC 60068-2-27]	≤ 400 g, 3.5 ms
Shaft load max (axial/radial)	500 N / 1200 N
Rotational speed max	6000 rpm
Shaft material	Stainless steel
Cover material	Aluminium (coated)
Weight	1300 g
Cable gland dimension	M20 for Ø8-11 mm cables

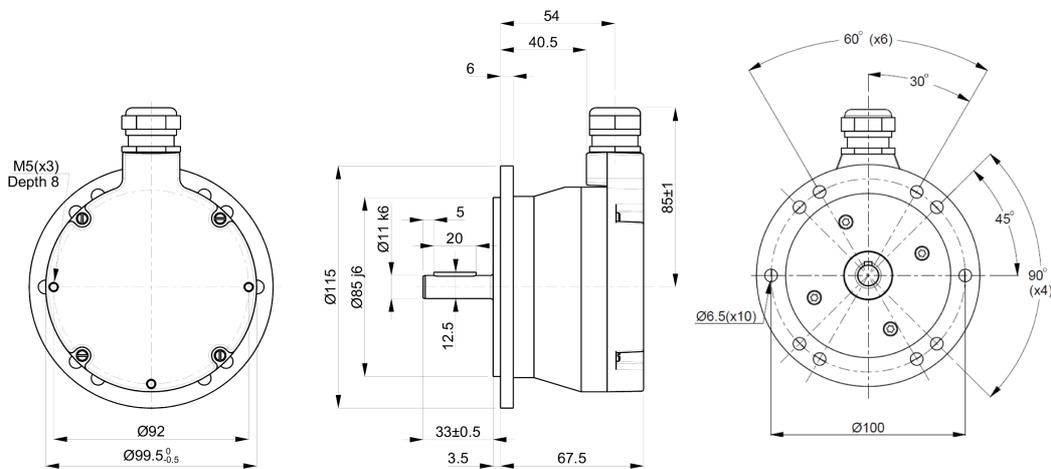
### Encoder configuration

Code key	850009456
Type	XSI
Model	850
Shaft type	Ø11 mm with key nut
Flange type	Euro-flange (B10-type)
Resolution	150 ppr
Power supply	9-30 Vdc
Output signal	High Current HTL (HCHTL)
Connection type	Cable gland
Connecting direction	Radial
Number of channels	6 (S00, S00\, S90, S90\, Sref, Sref\)

### Electrical data

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
MTTFd value [Years]	421
PFHd value [h-1]	7,43E-07

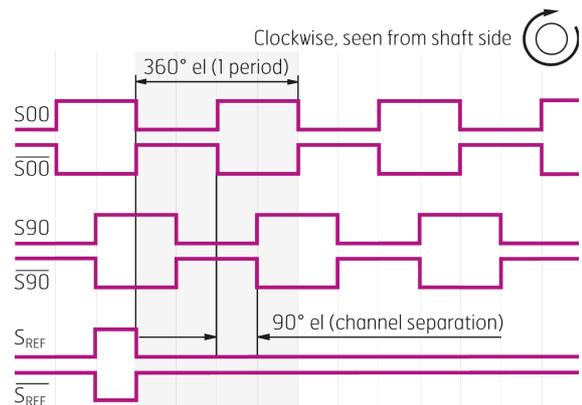
## Dimensions



## Pin Configuration

Function	Terminal
+E Volt	1
0 Volt	2
0 (Sref)	3
0 inverted (Sref\)	4
1 (S90)	5
1 inverted (S90\)	6
2 (S00)	7
2 inverted (S00\)	8
Shield	Chassis

## Output signal



## Available options

Advanced Diagnostic System

## Order information

Part number 739645-01