

ROTAPULS

Incremental encoder

Series

I115



- Heavy-duty encoder for harsh environments
- "Tachogenerator" design, B10 Euro-flange
- Rotatable connection with screw terminals
- High shaft load
- Power output circuit for long distance transmissions
- Corrosion and salt mist resistant housing



I115

ENVIRONMENTAL SPECIFICATIONS

Shock:	100 g, 6 ms
Vibrations:	10 g, 5-2000 Hz
Protection:	IP66
Operating temperature range:	-40°C + 100°C (-40°F + 212°F)
Storage temperature range:	-40°C + 100°C (-40°F + 212°F) (98% R.H. without condensation)

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Shaft diameter:	Ø 11 mm
Shaft loading:	axial: 250 N radial: 350 N
Shaft rotational speed:	6000 rpm max.
Starting torque at 20°C:	1 Ncm (typical)
Bearings life:	400 x 10 ⁶ rev. min. (10 ⁹ rev. min. with 20 N shaft loading max.)
Weight:	~ 1 kg (35 oz)

ELECTRICAL SPECIFICATIONS

Resolution (PPR):	100-200-250-256-360-500-512-1000-1024-1250 1800-2000-2500
Counting frequency:	100 kHz max.
Output circuits:	NPN, Push-Pull, Line Driver, Universal circuit, Power Push-Pull
Power supply:	+5V ± 5%, +10V +30V, +5V +30V
Consumption:	70 mA (typical)
Output current (each channel):	40 mA max.
Protection:	against inversion of polarity and short-circuit (except L circuit)
EMC:	electro-magnetic immunity, according to: EN 61000-4-2 EN 61000-4-4
Optoelectronic life:	100.000 hrs min.
Connections:	via terminal box, cable Ø 4 ÷ 10 mm

MATERIALS

Flange:	anticorodal, UNI EN AW-6082, anodized
Housing:	anticorodal, UNI EN AW-6082, anodized
Bearings:	ABEC 5
Shaft:	stainless steel, non-magnetic, UNI EN 4305
Light source:	GaAl diodes

ACCESSORIES

MOL-32C-11K-11K:	flex. coupling with electric ins.
MST-32K-11-11:	stainless steel coupling
MDW-25C-11K-11K:	disk coupling



I115	-	X (a)	-	XXXXX (b)	XXX (c)	X (d)	XX (e)	/Sxxx (f)
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a) OUTPUT CIRCUITS N = NPN o.c. Y = Push-Pull L = Line Driver (RS422) H = PP/LD universal circuit T = Power Push-Pull	c) OUTPUT SIGNAL / CONNECTION ZCT = AB0 /AB0, terminal blocks	e) SHAFT DIAMETER 11 = 11 mm
b) RESOLUTION (PPR) See electrical specifications	d) SUPPLY VOLTAGE 1 = +5V±5% (L output circuit) 2 = +10V÷+30V (N, Y and T output circuits) 4 = +5V÷+30V (H output circuit)	f) CUSTOM VERSION