EA40 T/U
ABSOLUTE SINGLETURN ENCODER FOR TOOL CHANGE APPLICATIONS

ISO 9001:2000

Absolute Encoder

Ø40 T/U absolute encoders are specifically designed to be directly mounted on machine tools and they are suitable for being mounted on turrets for tool change (8 or 12 positions). The timing between encoder and turret can be overviewed by a led mounted on the enclosure. According to that it is possible to visualise the position of the first tool making easier and quicker the mounting for the operator.

Main characteristics:
- Easy mechanical mounting.
- Several output types available.
- 8 and 12 position turn configuration.
- IP66 sealing.

Ordering code

Full stop to separate special versions															
EA	40	T	12	B	8/28	R	P	6	S	3	P	R	.	XXX

Singleturn absolute encoder series: EA

Body dimension: 40

Type of flange
- mod. EA40T: T
- mod. EA40U: U

Positions
- 8
- 12

Code type
- Binary: B

Input voltage
- 5
- 8 ÷ 28

Output types
- N NPN
- C NPN OPEN COLLECTOR
- R PNP
- U PNP

Logic
- N Negative
- P Positive

Shaft diameter
- 6 ø 6 mm

Enclosure rating
- S Standard IP66

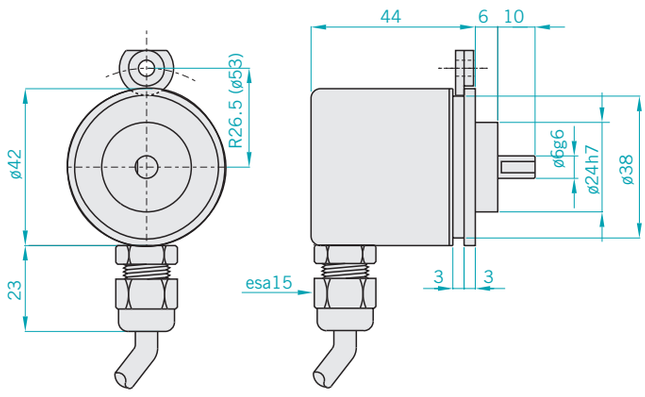
R.P.M.
- 3 3000 max

P Cable output (standard length 0,5 m)

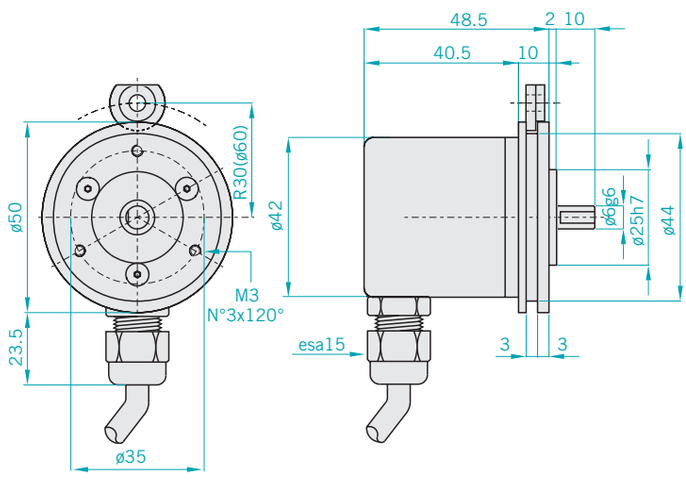
R Radial

Special version code numbered from 001 to 999

EA 40 T



EA 40 U



Signal configurations

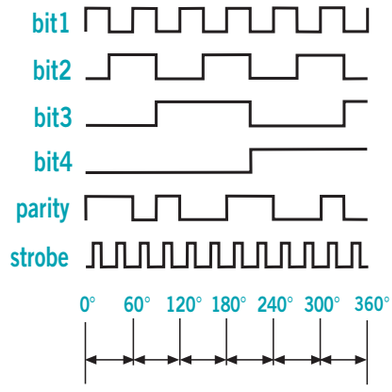
Wire colour	WHITE	YELLOW	GREEN	VIOLET	RED	BLACK	BROWN	BLUE
Turn position	bit1	bit2	bit3	bit4	Parity	Strobe	+Vdc	0 Volt
1	•				•	⎍		
2		•			•	⎍		
3	•	•				⎍		
4			•		•	⎍		
5	•		•			⎍		
6		•	•			⎍		
7	•	•	•	•	•	⎍		
8				•	•	⎍		
9	•			•		⎍		
10		•		•		⎍		
11	•	•	•	•	•	⎍		
12						⎍		

Electrical specifications

Positions	8 / 12
Input voltage	5Vdc / 8 ÷ 28 Vdc
Input current with no output load	100 mA
Source and sink current	40 mA for channel
Output types	NPN / NPN OPEN COLLECTOR / PNP / PNP OPEN COLLECTOR
Output frequency	100 KHz output code

Mechanical specifications

Shaft diameter (mm)	ø6 g6
Enclosure rating	IP66 standard
R.P.M. Max	3000 continuous
MAX shaft load	5N (0.5 Kp) axial 5N (0.5 Kp) radial
Shock	50 G for 11 msec
Vibrations	10G 10 ÷ 2000 Hz
Bearings life	10^9 revolutions
Bearings	n° 2 ball bearings
Shaft material	Stainless steel AISI303
Body material	Aluminium D11S - UNI 9002/5
Housing material	PA66 reinforced with fiber glass
Operating temperature	0°÷ +60°C
Storage temperature	-15°÷ +70°C
Weight	100 g



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