



EA50 A SINGLETURN ABSOLUTE ENCODER



Absolute Encoder

- Ø50 absolute encoder. Main characteristics:
- Up to 1.024 ppr (10 bit) resolution.
 - Several output types available.
 - Up to 28 Vdc input voltage.
 - Output cable with connector.
 - Up to 6.000 rpm speed rotation
 - Up to IP66 sealing



Singleturn ABSOLUTE ENCODERS

Ordering code

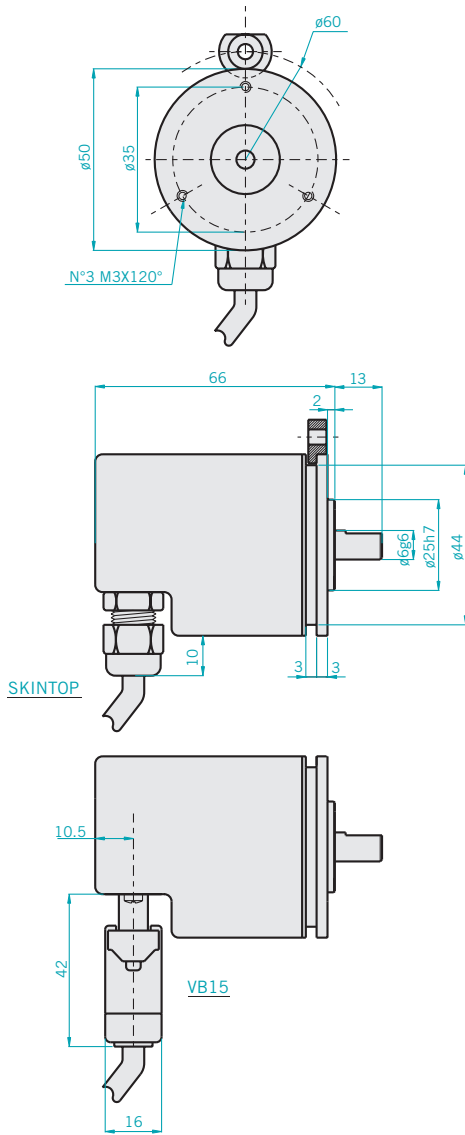
Full stop to separate special versions

EA 50 A 360 G 5 N N 6 X 6 P R . XXX

<p>Singleturn absolute encoder series EA</p> <p>Body dimension 50</p> <p>Type of flange mod. EA50A A</p> <p>Resolution 2/4/8/16/32/64 128/256/512 90/180/360 250/500</p> <p><small>Please directly contact our offices for pulses availability</small></p> <p>Code type Gray G</p> <p>Input voltage 5 8 ÷ 28</p>	<p>R Radial</p> <p>P Cable output (standard length 0,5 m) VB 15 pin connector type</p> <p>R.P.M. 3 3000 with IP66 6 6000</p> <p>Enclosure rating X IP54 S Optional IP66</p> <p>Shaft diameter 6 ø 6g6 mm</p> <p>Logic N Negative P Positive</p> <p>Output types N NPN (negative logic standard) C NPN OPEN COLLECTOR (negative logic standard) R PNP (positive logic standard) U PNP OPEN COLLECTOR (positive logic standard)</p> <p><small>For optional about output types please refer to the absolute output section</small></p>	<p>Special version code numbered from 001 to 999</p>
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EA50 A

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Connections and standard colours

WIRE COLOURS	FUNCTION	G	PIN "V15MP"
green	bit 1 (LSB)	G ⁰	1
yellow	bit 2	G ¹	2
blue	bit 3	G ²	3
brown	bit 4	G ³	4
pink	bit 5	G ⁴	5
white	bit 6	G ⁵	6
gray	bit 7	G ⁶	7
violet	bit 8	G ⁷	8
gray-pink	bit 9	G ⁸	9
white-green	bit 10	G ⁹	10
	/	/	11
	/	/	12
red-blue	U/D	/	13
black	0 Volt	/	14
red	+ Vdc	/	15

Electrical specifications

Resolution	2 / 4 / 8 / 16 / 32 / 64 / 128 / 256 / 512 / 90 / 180 / 360 / 250 / 500
Input voltage	5Vdc / 8 ÷ 28 Vdc
Input current with no output load	150 mA MAX
Source and sink current	40 mA for channel
Output types	NPN (Negative logic) NPN Open Collector (Negative logic) PNP (Positive logic) PNP Open Collector (Positive logic)
Output frequency	100 KHz output code
Code	Gray

Mechanical specifications

Shaft diameter (mm)	ø6 g6
Enclosure rating	IP54 standard IP66 optional (with Skintop)
R.P.M. Max	3000 with IP66 6000 con IP54
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	250 g

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AS001T0705A

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