

MAIN FEATURES

Reduced dimensions absolute encoder.
Main characteristics:

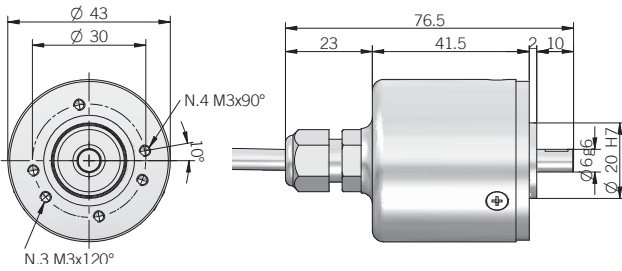
- Up to 256 ppr (8 bit)
- Several output types available
- Output cable
- Up to 6000 rpm
- Up to IP 66 sealing



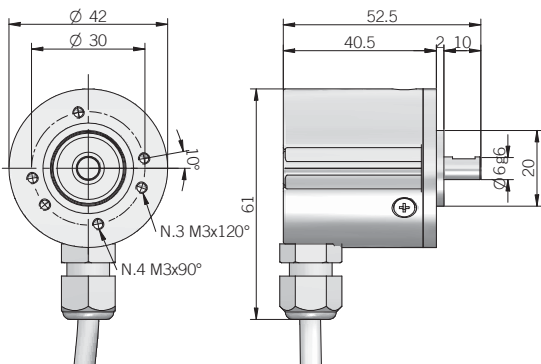
ORDERING CODE

EA	40	A	256	G	8/28	R	P	6	X	6	P	R	. XXX
SERIES singleturn absolute encoder EA	SIZE mm 40	TYPE A B	RESOLUTION ppr 2 / 4 / 8 / 16 / 32 / 64 / 128 / 256 <i>please directly contact our offices for pulses availability</i>	CODE TYPE Gray G	POWER SUPPLY 5 V DC 5 8 ... 28 V DC 8/28	ELECTRONIC INTERFACE NPN (negative logic standard) N NPN OPEN COLLECTOR (negative logic standard) C PNP (positive logic standard) R PNP OPEN COLLECTOR (positive logic standard) U	LOGIC N Negative P Positive	SHAFT DIAMETER 6 mm	ENCLOSURE RATING X IP 54 (standard) S IP 66 (optional)	MAX ROTATION SPEED 3 3000 rpm with IP 66 6 6000 rpm	OUTPUT TYPE P cable output (standard length 0.5 m)	OUTPUT DIRECTION A axial R radial	VARIANT XXX custom version

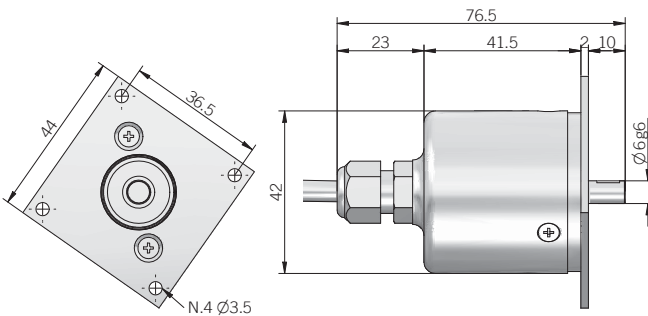
EA 40 A axial output



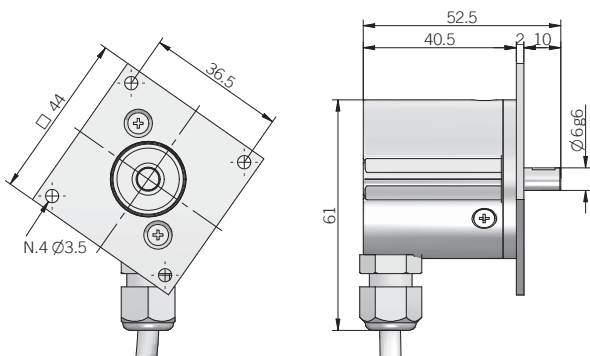
EA 40 A radial output



EA 40 B axial output



EA 40 B radial output



Electrical specifications

Resolution	2 / 4 / 8 / 16 / 32 / 64 / 128 / 256
Power supply	5 V DC 8 ... 28 V DC
Current consumption without load	150 mA max
Max load current	40 mA per channel
Electronic interface	NPN / NPN OPEN COLLECTOR / PNP / PNP OPEN COLLECTOR
Max output frequency	25 kHz
Code	Gray
Electromagnetic compatibility	IEC 61000-6-2 IEC 61000-6-4

Mechanical specifications

Shaft diameter	6 mm
Enclosure rating	IP 54 (standard) (IEC 60529) IP 66 (optional) (IEC 60529)
Max rotation speed	3000 rpm with IP 66 6000 rpm
Max shaft load	5N (0.5 Kp) axial 5N (0.5 Kp) radial
Shock	50 G, 11 ms (IEC 60068-2-27)
Vibration	10 G, 10÷2000 Hz (IEC 60068-2-6)
Bearings	n° 2 ball bearings
Bearings life	10 ⁹ revolutions
Shaft material	stainless steel UNI X10CrNiS1809
Body material	aluminium UNI 9002/5
Housing material	PA 66 reinforced with fiber glass
Operating temperature	0° ... +60 °C
Storage temperature	-15° ... +70 °C
Weight	100 g

Connections and standard colours

Wire colours	Function	G
green	bit 1 (LSB)	G ⁰
yellow	bit 2	G ¹
blue	bit 3	G ²
brown	bit 4	G ³
orange	bit 5	G ⁴
white	bit 6	G ⁵
gray	bit 7	G ⁶
violet	bit 8	G ⁷
black	0 Volt	/
red	+ Vdc	/