

MAIN FEATURES

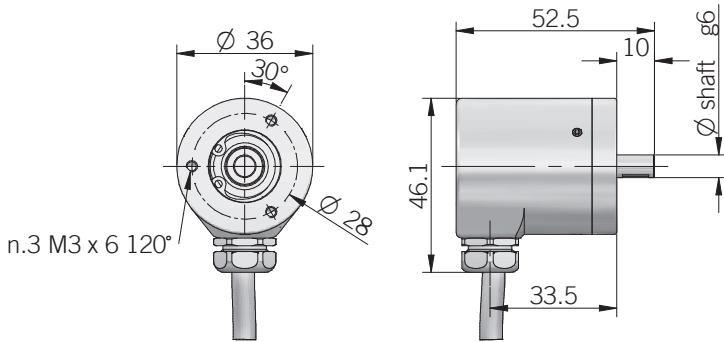
Miniaturized singleturn absolute encoder for limited size applications.

- Magnetic sensor technology without contact (Magnetic ASIC)
- Sturdy construction thanks to separated chambers
- Resolution up to 12 bit (4096 ppr)
- Power supply up to +30 VDC with SSI as electronic interface
- Code reset for easy setup
- Cable output, connectors available on cable end
- 6 mm diameter solid shaft
- Mounting by fixing flange



ORDERING CODE	EA	36A	12	G	8/30	S	P	X	6	X	8	P	R	.XXX
SERIES magnetic singleturn absolute encoder series EA														
MODEL fixing flange screw holes \varnothing 28 mm 36A														
SINGLETURN RESOLUTION from 1 to 12 bit 360 / 720 ppr <i>please directly contact our offices for other pulses</i>														
CODE TYPE binary B gray G (no powers of 2) binary offset code (0-XXX) BC (no powers of 2) gray offset code (0-XXX) GC														
POWER SUPPLY 5 V DC 5 8 ... 30 V DC 8/30														
ELECTRONIC INTERFACE Serial Synchronous Interface - SSI S														
LOGIC positive P														
OPTIONS to be reported if not used X reset ZE														
SHAFT DIAMETER mm 6														
ENCLOSURE RATING IP 67 cover side / IP 65 shaft side X														
MAX ROTATION SPEED 8000 rpm 8														
OUTPUT TYPE cable (standard length 0,5 m) P														
DIRECTION TYPE radial R														
VARIANT custom version XXX														

EA 36 A



dimensions in mm

ELECTRICAL SPECIFICATIONS		MECHANICAL SPECIFICATIONS	
Singleturn resolution	from 1 to 12 bit 360 / 720 ppr	Shaft diameter	ø 6 mm
Power supply	5 = 4,75 ... 5,25 V DC 8/30 = 7,6 ... 30 V DC (reverse polarity protection)	Enclosure rating	IP 67 cover side / IP 65 shaft side (IEC 60529)
Power draw without load	< 400 mW	Rotation speed	8000 rpm continuous / 10000 rpm max
Output type	RS-422	Max shaft load	20 N axial / radial
Code type	binary or gray	Shock	50 G, 11 ms (IEC 60068-2-27)
Auxiliary inputs (U/D - Reset)	active high (+Vdc) connect to 0V if not used / Reset tmin 150 ms	Vibration	20 G, 10 ... 2000 Hz (IEC 60068-2-6)
Clock frequency	100 kHz ... 1 MHz	Moment of inertia	0,001 x 10 ⁻⁶ kgm ²
SSI monostable time (Tm)	20 μs	Starting torque (at +20°C / +68°F)	< 0,01 Nm
SSI pause time (Tp)	> 35 μs	Body material	EN-AW 2011 aluminum
SSI frame	(MSB ... LSB) 1 ... 12 bit = 13 bit data length	Shaft material	1.4305 / AISI 303 stainless steel
Accuracy	± 0,35° typical	Housing material	AISI 420 stainless steel
Counting direction	decreasing clockwise (shaft view)	Bearings	2 ball bearings
Start-up time	150 ms	Bearings life	10 ⁹ revolutions
Electromagnetic compatibility	IEC 61000-6-2 IEC 61000-6-4	Operating temperature	-20° ... +85°C (-4° ... +185°F)
		Storage temperature	-20° ... +85°C (-4° ... +185°F)
		Weight	150 g (5,29 oz)

CONNECTIONS	
Function	Cable output
+ Vdc	red
0 Volt	black
U / D	red / blue
data +	green
data -	brown
clock +	yellow
clock -	orange
RESET	white
⊥	shield