

GIVI MISURE s.r.l.

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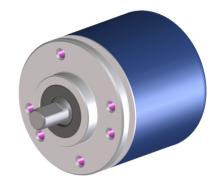
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Code	Project	Release	Title
ST06	A02	В	TECHNICAL DATASHEET

OPTICAL ENCODER EN38MN

GENERAL FEATURES

- Incremental optical rotary encoder with small overall
- Flange and body made of aluminium.
- Sealed cable output either radial or axial position.



MECHANICAL AND ELECTRICAL FEATURES

MECHANICAL

- Flange and body made of aluminium.
- Ring for high protection.
- Shaft made of stainless steel.
- Ball bearings.
- Fixing by no. 3 screws M3 at 120° or no. 4 screws M3 at 90°.
- · Centring diameter 20mm.
- High rotational precision.
- High protection against environmental conditions.

ELECTRICAL

- · Protection against shortcuts.
- High stability of output signals.

ATOREO				
Code EN38MN	PP	L5		
Pulses per revolution	from 5 to 3600 ppr			
Max. rotating speed	momentary	8000rpm		
Max. Totaling speed	permanent	6000rpm		
Max. load on shaft	30 N (radial)	30 N (axial)		
Shaft (diameter A x length L) mm	ø6 h7 – ø8 h7			
Protection class	IP65 (standard) *			
		ptional)		
Operating temperature		0 ÷ 70° C		
Storage temperature	-20 ÷ 80° C			
Humidity	20 ÷ 90 % (not condensed)			
Power supply	5 ÷ 28V ± 10%			
Current consumption at 5V 40 mA		mA		
Max. output current	40 mA	70 mA		
Max. frequency	120 kHz			
Output	Push-Pull	Line Driver		
Standard length of cable	1m			
Electrical connections	see rel. table			
Electrical protections	inversion of power supply polarity			
Liectrical protections	short-circuits on output port			
Weight	80	80 g		

It is important to note that shaft rotates more freely in the version with protection class IP65.

ORDERING CODE							
MODEL	CABLE OUTPUT	PPR	POWER SUPPLY	SHAFT Ø	CABLE	OUTPUT	OPTIONS
EN38MN	HR	xxxxx	05V	D06	M01	L5 C	V2
HR = radial HA = axial		05V = 5V 0528 = 5÷28V	D06 = ø6mm D08 = ø8mm	M0.5 = 0.5m M01 = 1m M40 = 40m _{MAX}	L5 C = LINE DRIVER PP C = PUSH-PULL	No code = standard configuration	

Example OPTICAL ENCODER EN38MN HR 00300 05V D06M01 L5 C V2



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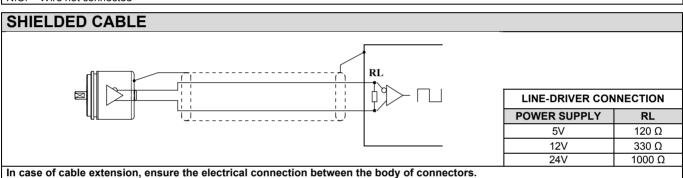
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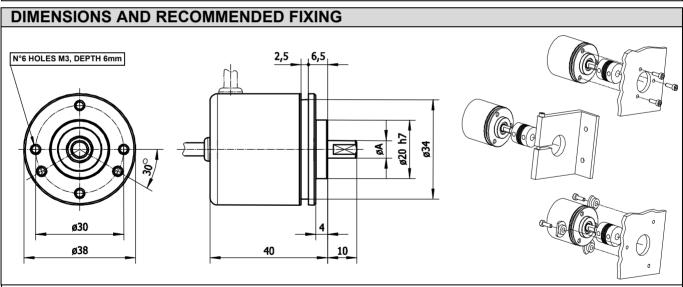
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ST06	A02	В	TECHNICAL DATASHEET
00 40	rioject	recrease	1100

CABLE AND ELECTRICAL CONNECTIONS Cable 8 cores Æ = 4.5mm, PVC external sheath PP L5 WIRE WIRE Wires section: **SIGNAL SIGNAL** COLOUR COLOUR - for power supply: 0.14mm² 0.14mm² - for signals: Α Green Α Green White Cable 5 cores Æ = 4.1mm, PVC external sheath В White В Ζ Brown Ζ Brown Wires section: - for power supply: 0.35mm² Ā Orange - for signals: 0.14mm Light Blue Ē Ī Yellow NOTES: Red **V**+ Red V+ Respect a minimum bending radius of 50mm for cables. GND GND Blue Blue Shield Shield

N.C. = Wire not connected





- Use an elastic coupling for shaft junction.
- For fixing through brackets, drill on the mounting surface no. 3 holes M4 on a diameter of 50mm.

WHAT TO AVOID

- Any type of mechanical working (cut, drill, mill, etc.)
- Any modification either on the body or on the shaft of the encoder
- Any kind of bad usage
- External hits or stresses

