

GIVI MISURE s.r.l.

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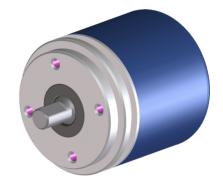
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Code	Project	Revision	Title		
ST04	A02	В	TECHNICAL DATASHEET		

OPTICAL ENCODER EN38ON

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 Cod. EN38ON PP L₅ Number of pulses/revolution From 5 to 3600 ppr • Flange and body made of aluminium 8000 rpm (peak) Max rotational speed • Ring for high protection 6000 rpm (continuous) · Stainless steel shaft 30 N (radial) Max load on the shaft · Ball bearings 30 N (axial) • High protection against environmental conditions Shaft diameter ø6 h7 - ø8 h7 IP65 (standard) **Protection class** IP67 (optional) **ELECTRICAL** Operating temperature 0 ÷ 70° C Storage temperature -20 ÷ 80° C · Protection against shortcuts 20 ÷ 90 % Humidity · High stability of output signals 5 ÷ 28V ± 10% Power supply voltage **Current consumption at 5Volts** 40 mA Max output current 40 mA 70 mA Max frequency 120 kHz Push Pull Line Driver Output

ORDERING CODE							
MODEL	CABLE OUTPUT	PPR	POWER SUPPLY	SHAFT Ø	CABLE	OUTPUT	OPTIONS
EN38ON	HR	xxxxx	05V	D06	M01	L5 C	V2
L	HR = radial output HA = axial output		05V = 5V 0528 = 5÷28V	D06 = Ø6 mm D08 = Ø8 mm	M0.5 = 0.5m M01 = 1m M40 = 40m _{MAX}	L5 C = Line Driver PP C = Push-Pull	No code = standard configuration V2 = protection class IP67

Standard length of cable

Electrical connections

Electrical protections

Weight

Example • EN38ON HR 00300 05V D06M01 L5 C V2

1m

See the rel. table Inversion of Power Supply Polarity

Short Circuit on output port

80 g



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ST04 A02 B TECHNICAL DATASHEET

CABLE AND ELECTRICAL CONNECTIONS

Cable 8 cores Æ = 4.5mm, PVC external sheath

Wires section:

- for power supply: 0.14mm² - for signals: 0.14mm²

Cable 5 cores Æ = 4.1mm, PVC external sheath

Wires section:

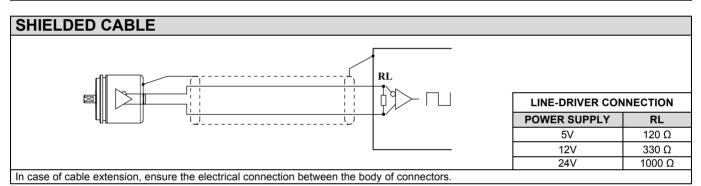
- for power supply: 0.35mm² - for signals: 0.14mm²

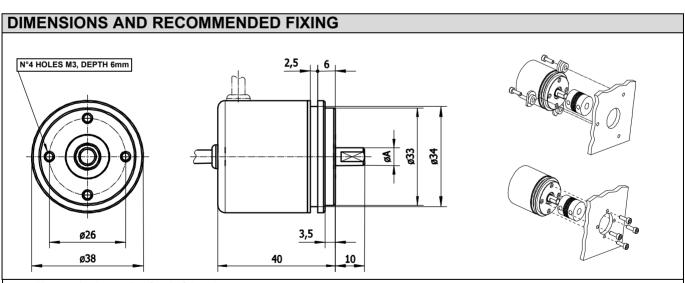
NOTES:

Respect a minimum bending radius of 50mm for cables.

N.C. = Wire not connected

ı	PP	L5		
SIGNAL	WIRE COLOUR	SIGNAL	WIRE COLOUR	
A	Green	A	Green	
В	B White		White	
Z	Brown	Z	Brown	
		Ā	Orange	
		B	Light Blue	
		Z	Yellow	
V+	Red	V+	Red	
GND	Blue	GND	Blue	
- -	Shield	<u> –</u>	Shield	





- Use an elastic coupling for shaft junction.
- For fixing through brackets, drill on the mounting surface n. 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

