

Code **ST10**

GIVI MISURE s.r.l.

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Project	Release	Title
A02	\boldsymbol{B}	TECHNICAL DATASHEET

OPTICAL ENCODER EN38FN

GENERAL FEATURES

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



MEQUANICAL AND ELECTRICAL FEATURES					
MECHANICAL AND ELECTRIC	SAL FEATURES				
MECHANICAL	Cod. EN38FN	PP	L5		
	Pulses per revolution	from 5 to	from 5 to 3600 ppr		
Flange and body made of aluminium.Ring for high protection.	Max. rotating speed	momentary permanent	8000rpm 6000rpm		
Shaft made of stainless steel. Pall be assigned.	Max. load on shaft	30 N (radial)	30 N (axial)		
Ball bearings. Fixing by three ded and M4004.	Shaft (diameter A x length L) mm	ø6 h7 ·	– ø8 h7		
Fixing by threaded nut M18x1.	Protection class	IP65 (standard) * IP67 (optional)			
ELECTRICAL	Operating temperature	0 ÷	70° C		
LLLCTRICAL	Storage temperature	-20 ÷	-20 ÷ 80° C		
Protection against shortcuts.	Humidity	20 ÷ 90 % (not condensed)			
High stability of output signals.	Power supply	5 ÷ 28\	/ ± 10%		
	Current consumption at 5V	40	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 re	l. table		
	Electrical protections	inversion of power supply polarity short-circuits on output port			
	Weight	80 a			

^{*} 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	
EN38FN	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 V2 = protection class IP67	

Example OPTICAL ENCODER EN38FN HR 00300 05V D06M01 L5 C V2



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CABLE AND ELECTRICAL CONNECTIONS

Cable 8 cores \emptyset = 4.5mm, PVC external sheath

Wires section:

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

Cable 5 cores \emptyset = 4.1mm, PVC external sheath

Wires section:

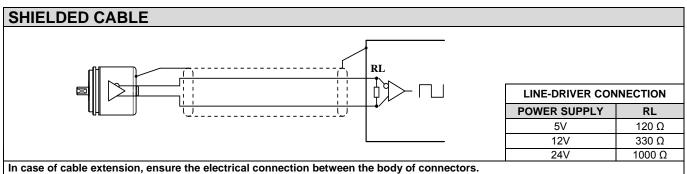
0.35mm² - for power supply: - for signals: 0.14mm²

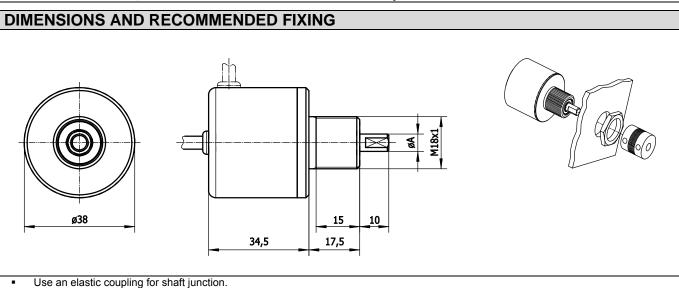
NOTES:

Respect a minimum bending radius of 50mm for cables.

N	\overline{C}	=	\//ir△	not	con	nected

P	Р	L5		
SIGNAL	WIRE COLOUR	SIGNAL	WIRE COLOUR	
Α	Green	Α	Green	
В	White	В	White	
Z	Brown	Z	Brown	
		Ā	Orange	
		B	Light Blue	
		\overline{z}	Yellow	
V+	Red	V+	Red	
GND	Blue	GND	Blue	
-∤-	Shield	⊣ ⊩	Shield	





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

