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Code	Project	Release	Title
<i>ST10</i>	A02	В	TECHNICAL DATASHEET

OPTICAL ENCODER EN38FN

GENERAL FEATURES

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



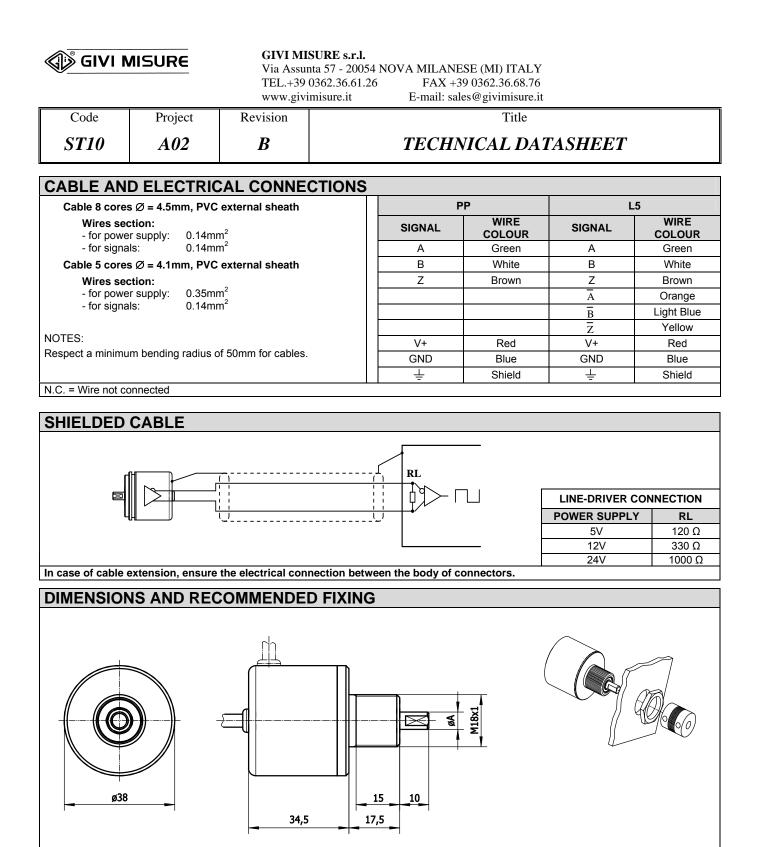
MECHANICAL AND ELECTRICAL FEATURES

MECHANICAL	Cod. EN38FN	PP	L5	
	Pulses per revolution	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.	Max. load on shaft	30 N (radial) – 30 N (axial)		
Ball bearings.	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		
LECTRICAL	Storage temperature	-20 ÷ 80° C		
 Protection against shortcuts. 	Humidity	20 ÷ 90 % (no	20 ÷ 90 % (not condensed)	
 High stability of output signals. 	Power supply	5 ÷ 28V ± 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	lard length of cable 1m		
	Electrical connections	see rel. table		
	Electrical protections		inversion of power supply polarity short-circuits on output port	
	Weight	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			
EN38FN	HR	xxxxx	05V	D06	M01	L5 C	V2			
HR = radial HA = axial			05V = 5∨ 0528 = 5÷28∨	D06 = ø6mm D08 = ø8mm	M0.5 = 0.5m M01 = 1m	L5 C = LINE DRIVER PP C = PUSH-PULL	No code = standard configuration			
					M40 = 40m _{MAX}		V2 = protection class			

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



Use an elastic coupling for shaft junction.

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



Without prior notice, the products may be subject to modifications that the Manufacturer reserves to introduce as deemed necessary for their improvement.