

GIVI MISURE s.r.l.

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Code	Project	Release	Title	
ST03	ST03 A04-B A		TECHNICAL DATASHEET	

ELECTRONIC HANDWHEEL VN413FT

GENERAL FEATURES

- Incremental bidirectional encoder which allows to manually vary axis shifting typically on NC manufacturing machines.
- Up to 500 pulses/revolution.
- Cable output (in radial position) or terminal board.
- Round flange of reduced size.
- Knob available in silver or dark grey colours.



MECHANICAL AND ELECTRICAL FEATURES				
Code VN413FT				
Pulses	50 - 100 - 500 ppr			
Protection class	IP40			
Operating temperature	0 ÷ 70°C			
Storing temperature	-20 ÷ 80°C			
Humidity	20 ÷ 90% (not condensed)			
Power supply	5 V ± 5% or 12 ÷ 24 V ± 5%			
Current consumption	45 mA			
Max. frequency	50 kHz			
Output signals	LINE DRIVER			
Standard length of the cable	1 m			
Electrical connections	see rel. table			
MTBF (hours)	350.000			
Weight	≈ 450 g			

ORDERING CODE							
MODEL	TYPE	PPR	POWER SUPPLY	CABLE OUTPUT / TERMINAL BOARD	OUTPUT SIGNALS	COLOUR	FLANGE
VN413FT	B0R	00100	05V	M01	L5	w	7
	B0R = bidirectional	00050 = 50 ppr 00100 = 100 ppr 00500 = 500 ppr	05V = 5V 1224 = 12÷24V	Mxx = cable length in meters M0.5 = 0.5m M01 = 1m M40 = 40m	L5 = LINE DRIVER	W = silver B = dark grey	7 = standard 8 = bigger size

MR = terminal board

Example THANDWHEEL VN413FT B0R 00100 05V M01 L5 W7

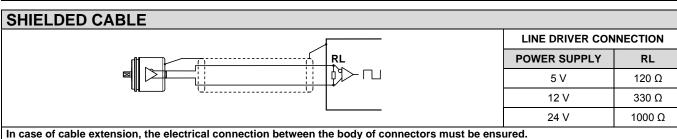


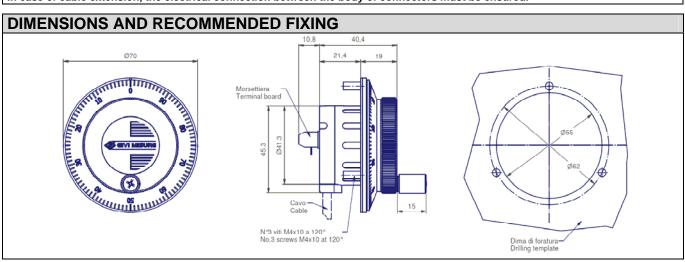
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CABLE AND ELECTRICAL CONNECTIONS				
TERMINAL BOARD	CABLE			
	Cable 9 cores Ø = 4.1 mm, PVC external sheath Wires section: - for power supply: 0.08 mm² - for signals: 0.08 mm² NOTES. Do not exceed the minimum cable bending radius of 30 mm.			
	LINE DR			
	SIGNAL	WIRE COLOUR		
	A	Green		
	В	White		
SCHEMA/CONNECT. 1 B B A A OV +V	NC	Brown		
SCHEMA/CONNECT. IJ B B A A OV +V	A negative	Orange		
	B negative	Light Blue		
	NC	Yellow		
	V+	Red		
	GND	Blue		
	Housing *	Violet		
	<u>+</u> *	Shield		
	* Connect these conductors to GND			





WHAT TO AVOID

- All mechanical reworks (cutting, drilling, face milling etc.).
- Any modification either on the body or on the shaft of the encoder
- Any kind of bad usage
- External hits or stresses

