

Code ST04	Project A32	Release B	Title TECHNICAL DATASHEET
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DIGITAL READOUT VI700

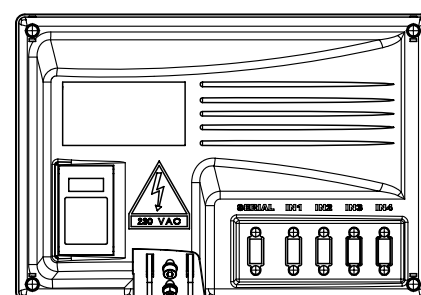
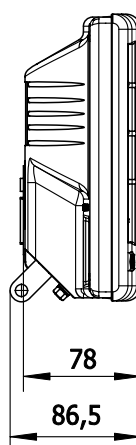
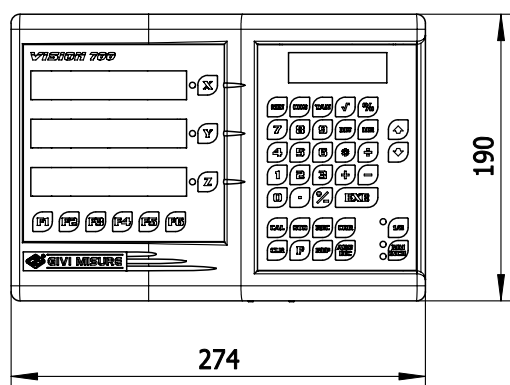
GENERAL FEATURES

- Compact-designed digital readout.
- Diagnostic of readout and optical scales (internal cleaning and/or internal defects).
- Reading of coded references (in combination with NCS scale).
- Universal software for any kind of machine-tool.
- Software upgrade through serial port.
- Program store for 1000 blocks.
- Optional: flush-mounted version (on a panel).



MECHANICAL AND ELECTRICAL FEATURES

Available resolutions	200 - 100 - 50 - 20 - 10 - 5 - 2 - 1 - 0.5 μ m 1° - 0.5° - 0.2° - 0.1° - 0.05° - 0.02° - 0.01° - 0.005° - 0.002° - 0.001°
Power supply	230 Vac $\pm$ 10% - 50/60 Hz / 110 Vac $\pm$ 10% - 60 Hz / 24 Vac $\pm$ 10% - 50/60 Hz
Current consumption	50 mA _{MAX} (230 Vac) / 100 mA _{MAX} (110 Vac) / 450 mA _{MAX} (24 Vac)
Axis display	7 high-efficiency digits h = 17 mm
Signal input per axis	2 square waves, phase displacement 90° $\pm$ 5° + synchronized index 05 Vdc
Maximum input frequency	300 kHz
Operating temperature	0° $\div$ 50°C
Storage temperature	-20° $\div$ 70°C
Relative humidity	95% (not condensed)
Vibration resistance (EN 60068-2-6)	25 m/s ² [55 $\div$ 2000 Hz]
Protection class (EN 60529)	keyboard IP 67 rear panel IP 42
Weight	$\approx$ 1kg



ORDERING CODE

MODEL	DISPLAYED AXES	INPUT AXES	MACHINE TYPE	LCD	POWER SUPPLY	VERSION	RESOLUTION
VI7	3	3	TO	L	230V	0	10

VI7	2 = 2 axes 3 = 3 axes	2 = 2 axes 3 = 3 axes 4 = 4 axes	IN = ANY TYPE TO = LATHE FR = MILLER	L = with LCD N = without LCD	230V = 230 Vac 110V = 110 Vac 24V = 24 Vac	0 = standard red 1 = flush-mounted red 4 = standard green 5 = flush-mounted green	10 = 0,1 mm 100 = 0,01 mm 5 = 0,005 mm 1 = 0,001 mm
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Example **COUNTER VI733TO L 230V 0 10**

Code	Project	Release	Title
ST04	A32	B	TECHNICAL DATASHEET

LIST OF FUNCTIONS

F 0 EXE	DELETING STORED DATA	
F 9 EXE	SETTING PRINTING LINE SPACINGS	
F 26 EXE	CONSTANT PITCH	
F 28 EXE	AXIS COUPLING	
F 30 EXE	LINEAR CORRECTION	
F 31 EXE	NON-LINEAR CORRECTION (10 POINTS)	
F 32 EXE	SCALE FACTOR	
F 34 EXE	RADIUS/DIAMETER CONVERSION	
F 36 EXE	VARIABLE RESOLUTION	
F 37 EXE	SEXAGESIMAL DEGREES READING	
F 38 EXE	CHOICE OF ANGULAR READING MODE	
F 44 EXE	TAPER CALCULATION	LCD
F 46 EXE	AUTOMATIC TAPER CALCULATION	LCD
F 48 EXE	THREAD CALCULATION	LCD
F 50 EXE	WEIGHT OF MATERIALS CALCULATION	LCD
F 52 EXE	TIP SPEED CALCULATION	LCD
F 54 EXE	ANGULAR SPEED CALCULATION	LCD
F 55 EXE	ENABLING THE AUTOMATIC QUOTA TRANSMISSION	
F 64 EXE	CIRCULAR FLANGE	
F 66 EXE	SPECIAL CIRCULAR FLANGE	
F 68 EXE	INCLINED CONSTANT PITCH	
F 70 EXE	PROGRAMMING THE MEMORY BLOCKS	
F 72 EXE	CENTER OF A CIRCUMFERENCE	
F 74 EXE	MIRROR IMAGE	
F 78 EXE	SCALE VALUE SET	LCD
F 80 EXE	DISPLAYING AXIS SPEED	LCD
F 81 EXE	DISPLAYING RECALLED TOOL	LCD
F 89 EXE	DEVICE DIAGNOSTIC	
F Z	DISPLAYING W AXIS	
STO	100 TOOL OFFSETS	
F REF	100 ORIGINS OF THE AXES	
F nn Fn	RECALLING OF SPECIAL FUNCTIONS (F1-F6)	
F 98718 EXE	SETTING THE TYPE OF SPINDLE ROTATION SPEED	
F 98762 EXE	LANGUAGE SELECTION	LCD
CAL	CALCULATOR	
	INVERSION OF COUNTING DIRECTION	
	SCALE ZERO REFERENCE (REF)	
	SELF-TEST	
	ABSOLUTE/INCREMENTAL COUNTING	
	RESETTING/PRE-SETTING A VALUE	
	MM/INCH CONVERSION	
	MIDPOINT CALCULATION	
	SERIAL OUTPUT RS-232	

WARNING!!

WHAT TO AVOID

1. All mechanical reworks (cutting, drilling, face milling a.s.o.).
2. All mishandling.
3. Impacts and external stress.
4. Exposure to external magnetic fields.

