

Vision 900



- Compact-design, modern and functional digital readout
- 5.7" touch-screen color, back-lit LCD
- USB, Touch Probe, CAN Bus and serial RS-232 interfaces
- Resolutions up to 0.1 μm
- 1000 memory blocks
- Diagnostic of readout and optical scales
- Reading of coded reference indexes (in combination with NCS scale)
- Universal software for any kind of machine tool; updates through serial port
- Option: flush-mounted version (on a panel)

Electrical data

Display	5.7" touch-screen color, back-lit LCD TFT panel which allows the displaying of up to 4 axes
Available resolutions	1000 - 500 - 200 - 100 - 50 - 20 - 10 - 5 - 2 - 1 - 0,5 - 0,2 - 0,1 - μm 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 110Vac $\pm 10\%$ - 60 Hz 24 Vac $\pm 10\%$ - 50/60 Hz
Current consumption	230 Vac - 60 mA _{MAX} 110 Vac - 120 mA _{MAX} 24 Vac - 500 mA _{MAX}
Encoder input signals	2 square waves with phase displacement of 90° $\pm 5^\circ$ + synchronized index TTL 5 Vdc
Maximum input frequency	300 kHz
Connectors	D-SUB 9p F (axes), D-SUB 9p M (RS-232, CAN Bus, Touch Probe), USB-B (USB)
Memory	Permanent for configuration and special functions

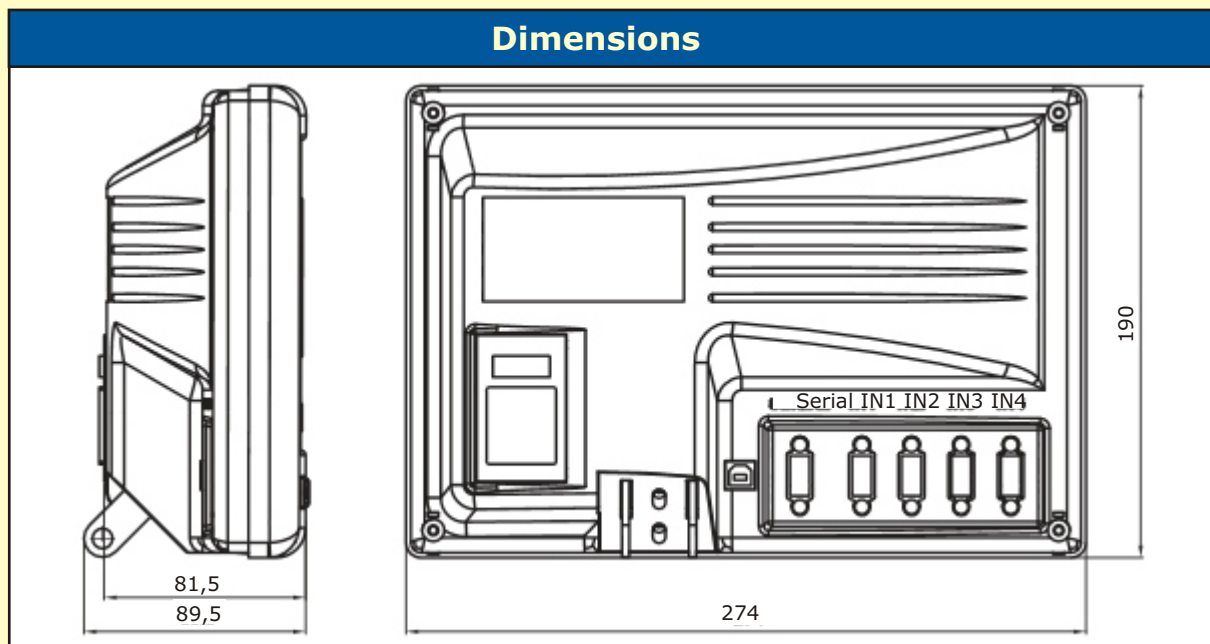
Mechanical data

Weight	1120 g
Operating temperature	0° - 50°
Storage temperature	-20° - 70°
Applicable to	Lathe - milling machine - boring machine - etc.
Protection class (EN 60529)	IP 40; IP 54 with plastic cover provided
Options	CAN Bus, Touch Probe

Main functions

- Language selection
- Device diagnostic
- Absolute/incremental counting
- mm/inch conversion
- Radius/diameter conversion
- Scale zero reference
- Position reset/preset
- Angular reading
- Axis coupling
- Special functions recall
- 100 tool offsets
- 100 origins of the axes
- Constant pitch
- linear/nonlinear correction
- Midpoint calculation
- Round flange
- Instrument configuration info
- Calculator
- Programming the memory blocks
- Online help
- Enabling the automatic transmission of positions

Dimensions



Ordering example

Example: DIGITAL READOUT VI9 3 3 TO 230V 0 1 0

Model	Displayed axes	Input axes	Machine	Power supply	Version	Resolution	Options
VI9	3	3	TO	230V	0	1	0
	2 = 2 axes 3 = 3 axes 4 = 4 axes	2 = 2 axes 3 = 3 axes 4 = 4 axes		230V = 230 Vac 110V = 110 Vac 24V = 24 Vac	0 = standard 1 = flush-mounted		0 = standard 1 = CAN interface
			IN= generic TO= lathe FR= milling FV= vertical milling FT= transv. milling AL= boring			1K = 1000 μm 10 = 100 μm 100 = 10 μm 1 = 1 μm 0,1 = 0,1 μm 1G = 1° 0,5G = 0,5°	