

VISION SERIES

THE DIGITAL READOUTS THAT MAKE EVERY MACHINING OPERATION EASY

VISION 900



3 AXES WITH LCD



3 AXES

VISION 700



2 AXES

12 Excellent reasons to use the digital readout **VISION 900**



1 5.7" touch-screen color, back-lit LCD TFT panel ensuring a high degree of visibility from any perspective.

2 Touch screen a user can interact with by means of the touch-pen provided.

3 Possibility to have up to 4 axes displayed.

4 Modern and compact design. Shockproof cover made of expanded tecnopolymer with internal conductive treatment.

12 Device diagnostic and check for correct operation of optical scales.

5 Combinable with optical scales capable of reading coded-distance zero references.

11 USB, Touch Probe, CAN Bus and serial RS-232 interfaces.

6 Available resolutions up to 0.1 μm (linear) or 0.001° (angular).

10

Program store for 1000 blocks that can be recalled in case of repetitive machining operations.

9

Wide range of user-friendly functions and dedicated keys for recalling special functions. Graphic visualization of function execution.

8 On-line HELP enabling to display the instructions on use of a given function.

7 Versatile: universal software for any kind of machine tool, upgradeable through serial port.

TECHNICAL DATA

GENERAL FEATURES

- Compact-designed, modern, functional digital readouts.
- Diagnostic of readout and optical scales.
- Reading of coded references (in combination with NCS scale).
- Universal software for any kind of machine tool, upgradeable through serial port.
- Easy and immediate use of several dedicated functions.
- Program store for 1000 blocks.
- Option: flush-mounted version (on a panel).

VISION 700



- Up to 4 input axes, up to 3 displayed axes.
- Auxiliary LCD version available.
- Resolutions up to 0.5 μm .
- Available with red or green displays.

ORDERING CODES

MODEL	DISPLAYED AXES	INPUT AXES	MACHINE	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 = MILLING MACHINE FV = VERT. MILLING MACHINE FT = TRANSV. MILLING MACHINE AL = BORING MACHINE	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 0.5 = 0.0005 mm

Example **DIGITAL READOUT VI733TO L 230V 0 10**

VISION 900



- 5.7" touch-screen color, back-lit LCD TFT panel which allows every single axis to be displayed.
- Up to 4 axes displayed.
- USB, Touch Probe, CAN Bus and serial RS-232 interfaces.
- Touch-pen provided.
- Resolutions up to 0.1 μm .
- Graphic visualization of function execution.
- On-line HELP.

ORDERING CODES

MODEL	DISPLAYED AXES	INPUT AXES	MACHINE	POWER SUPPLY	VERSION	RESOLUTION
VI9	3	3	TO	230V	0	10
VI9	2 = 2 axes 3 = 3 axes 4 = 4 axes	2 = 2 axes 3 = 3 axes 4 = 4 axes	IN = ANY TYPE TO = LATHE FR = MILLING MACHINE FV = VERT. MILLING MACHINE FT = TRANSV. MILLING MACHINE AL = BORING MACHINE	230V = 230 Vac 110V = 110 Vac 24V = 24 Vac	0 = standard 1 = flush-mounted	10 = 0.1 mm 100 = 0.01 mm 5 = 0.005 mm 1 = 0.001 mm 0.1 = 0.0001 mm

Example **DIGITAL READOUT VI933TO 230V 0 10**

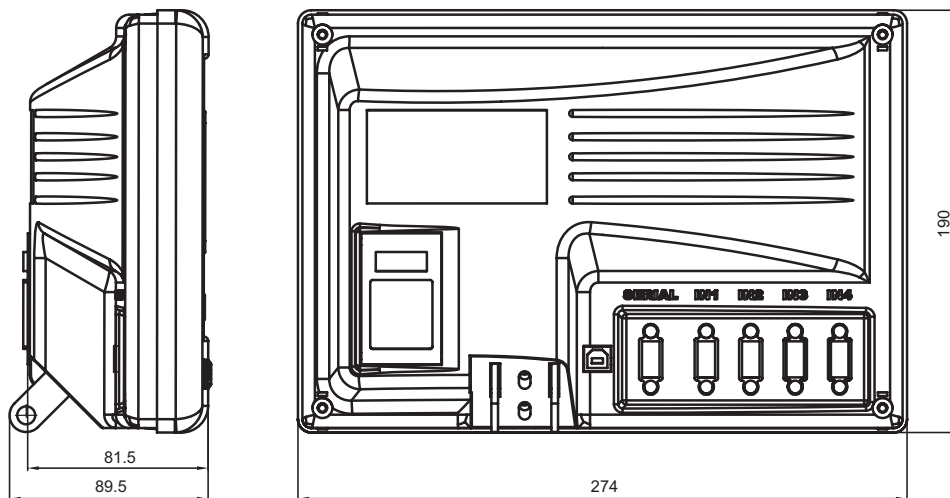
VISION DIGITAL READOUTS

MECHANICAL AND ELECTRICAL FEATURES

Model	VISION 700		VISION 900	
Display	7 high-efficiency digits h = 17 mm		5.7" color, back-lit LCD TFT	
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 110 Vac \pm 10% - 60 Hz 24 Vac \pm 10% - 50/60 Hz			
Max. current consumption	50 mA 100 mA 450 mA	230 Vac 110 Vac 24 Vac	60 mA 120 mA 500 mA	
Signal input per axis	2 square waves, phase displacement $90^\circ \pm 5^\circ$ + synchronized index 05 Vdc			
Maximum input frequency	300 kHz			
Operating temperature	$0^\circ \pm 50^\circ\text{C}$			
Storage temperature	$-20^\circ \pm 70^\circ\text{C}$			
Relative humidity	95% (not condensed)			
Vibration resistance (EN 60068-2-6)	25 m/s^2 [55 \pm 2000 Hz]			
Protection class (EN 60529)	keyboard IP 67		rear panel IP 42	
Weight	\approx 1 kg			

* Linear resolutions 1000 - 500 - 0.2 - 0.1 μm available for mod. VISION 900 only.

DIMENSIONS



MAIN FUNCTIONS

- | | |
|---|--|
| ■ LANGUAGE SELECTION | ■ 100 ORIGINS OF THE AXES |
| ■ DEVICE DIAGNOSTIC | ■ CONSTANT PITCH |
| ■ ABSOLUTE / INCREMENTAL COUNTING | ■ LINEAR / NON-LINEAR CORRECTION |
| ■ DIRECT MM/INCH CONVERSION | ■ MIDPOINT CALCULATION |
| ■ RADIUS / DIAMETER CONVERSION | ■ CIRCUMFERENCE CENTER |
| ■ INCREMENTAL AND CODED ZERO REF. READING | ■ ROUND FLANGE |
| ■ RESETTING/PRE-SETTING OF A DIMENSION | ■ DISPLAYING OF RECALLED TOOL |
| ■ LINEAR/ANGULAR AXIS READING | ■ CALCULATOR |
| ■ AXIS COUPLING | ■ PROGRAMMING OF MEMORY BLOCKS |
| ■ RECALLING OF SPECIAL FUNCTIONS | ■ ON-LINE HELP |
| ■ 100 TOOL OFFSETS | ■ SOFTWARE UPGRADE THROUGH SERIAL PORT |

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OPTICAL SCALES

MAGNETIC SCALES

ROTARY ENCODERS

DIGITAL READOUTS

POSITION CONTROLLERS

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