

# Multifunction display devices

## Series SX ...



**Series SX** units provide two impulse inputs and two auxiliary inputs which can be configured by keypad. By setting the appropriate mode of operation, they are suitable for the following measuring and control applications:



Fig.: SX 340

- Linear or rotational speeds including sign (direction of rotation), using either the time base principle for measurement.
- Machine cycles per minute or production speed (products per hour)
- Processing and baking times (reciprocal speed)
- Speed, calculated from differential time (i. e. falling rate of a dropping object)
- Timer functions with resolution from milliseconds to hours (industrial stopwatch)

### Features:

- 2 presets and optocoupler outputs
- Start up delay for control of minimum speed
- "Zero" output to indicate standstill
- Minimum/maximum value memory
- Averaging function selectable for stable display with unstable motion of the machine
- Free scaling of zero and fully scales display

### Technical data:

Power supply	230 / 115 VAC or 24 VDC
Aux. voltage for incremental encoder	+ 5 V / 150 mA + 12 V / 150 mA
Inputs	4 x (TTL - HTL - PNP - NPN - NAMUR, selectable)
Outputs	3 x PNP 5-30 V / 50 mA
Display	6 decade LED 15 mm (7 segment)
Processor	H8/325, 20 MHz
Input frequency	0.03 Hz to 100 kHz
Accuracy	± 1 digit in all operation modes
Operating temperature range	0 °C to 45 °C
Protective class on front	IP 44 (optional IP 65)
Dimensions (cut out)	<b>SX 340</b> 96x48x150 mm (91x43) <b>SX 540</b> 96x72x150 mm (91x67) <b>SX 640</b> 96x96x150 mm (91x91)
Weight	acc. version 400 - 700 g

### Options:

#### Design style 340 / 540 / 640

- A0 500** Analogue output ± 0 - 10 V / 0 - 20 mA / 4 - 20 mA proportional to display value.
- P0 500** Parallel data output with BCD or Binary or Gray code for PLC connection or quiliary purpose (20 bits resolution).
- PI 500** 20 bits parallel input with BCD or Binary or Gray code for remote preset control.
- RS 500** Serial interfaces RS 232 and RS 485 for communication or printer connection.
- AI 500** Supplementary analogue input for various special applications.
- IP 500** Protective class IP 65 for front plate and panel cut out.

#### Design style 540 / 640

- VW500** Thumbwheel switches on front for presets. Outputs are still optocouplers.
- RL 500** 3 Relays outputs in addition to the optocoupler outputs. Preset to be entered by keypad.
- VR 500** Combines VW 500 and RL 500: Presets by thumbwheels on front and 3 relay outputs with the optocoupler outputs.