

DEDX13567, DEDX13568, DEDX13569, DEDX13570

Universal Display Units with Impulse Inputs



DEDX 13567: Display only

DEDX 13568: Display with Analogue Output

DEDX 13569: Display with Two Presets and Switching Outputs

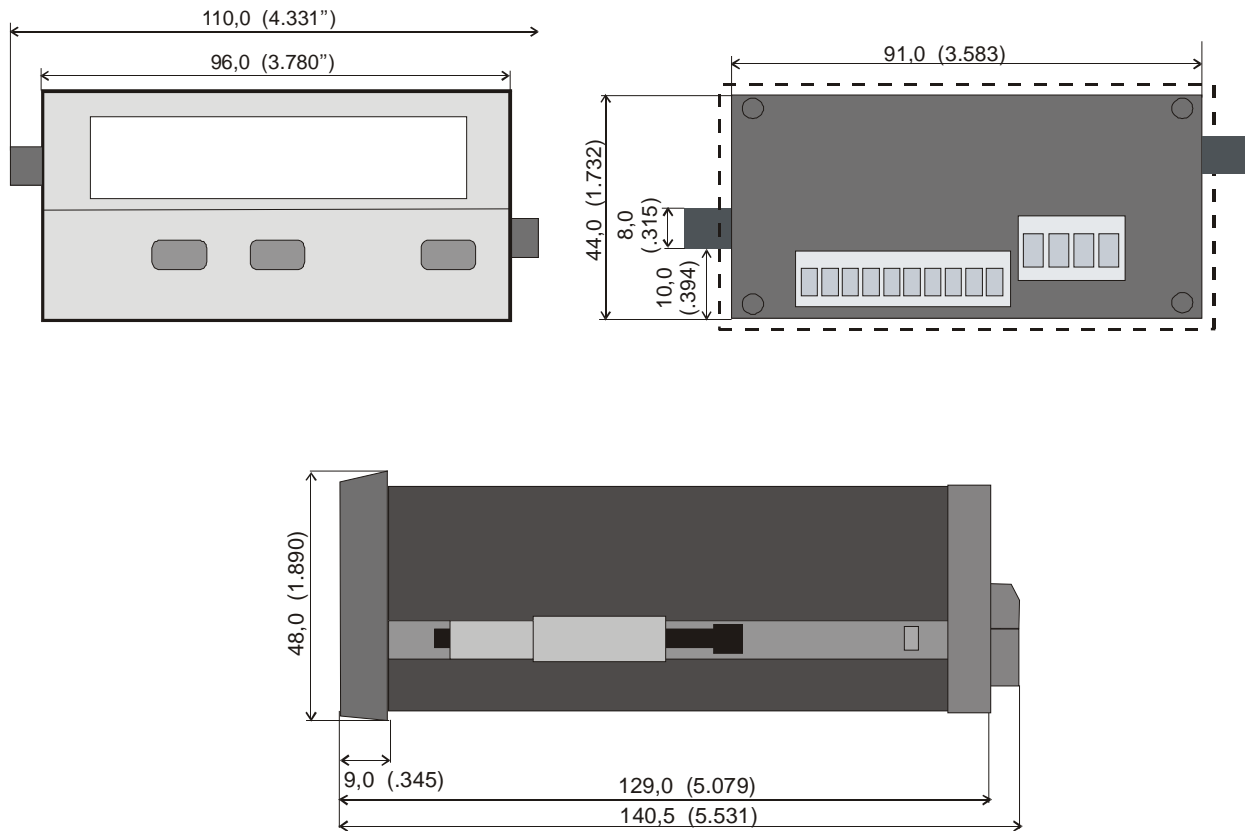
DEDX 13570: Display with Serial Interface

Operation modes:

- High Speed Position and Event Counter (100 kHz)
- Tachometer, Frequency Meter
- Baking Time and Processing Time Indicator (reciprocal speed)
- Timer, Stopwatch
- Speed Display from Transition Time between Start and Stop Impulse
- Additional Functions: Linearization, Brightness Control, Digital Filter etc.

1. Technical Appendix

1.1. Dimensions



Panel cut out: 91 x 44 mm (3.583 x 1.732")

1.2. Technical Specifications

Supply voltage AC	:	115/230 V (+/- 12.5 %)
Consumption	:	7.5 VA
Supply voltage DC	:	24V (17 – 30V)
Consumption (without sensor)	:	18 V = 120 mA, 24 V = 95 mA, 30 V = 80 mA (approx.)
Aux. voltage for encoder supply	:	24V DC, +/- 15%, 120 mA (with AC + DC supply) (5 VDC / 120 mA with option TTLIN1)
AC Power	:	7.5 VA
Inputs	:	3 (PNP/NPN/Namur), A/B = Impulse, C = Reset
Input currents	:	5.1 mA / 24 V (Ri = 4.7 kOhms)
Input level HTL (standard)	:	Low: 0 ... 3,5 V, High: 9 ... 30V
Input level TTL (option TTLIN1)	:	CMOS levels, Low: 0 ... 0.8 V, High: 3.6 ... 5.0 V
Max. input frequency	:	All counter modes: 100 kHz All other operating modes: 25 kHz Reset input C: 1 kHz (min. pulse duration 500 µsec)
Display update rate	:	approx. 7 msec (330 msec with tachometer operation)
Accuracy (frequency measurement)	:	+/- 1 ppm +/- 1 Digit
Analogue output (DEDX13568)	:	Current: 0/4...20 mA (load 0 – 270 ohms) Voltage: 0...+/- 10 V (max. 2 mA)
Resolution analogue	:	14 Bits + Sign
Accuracy analogue	:	0.1%
Analogue response time	:	see 4.3.
Ambient temperature	:	Operation: 0° - 45°C (32 – 113°F) Storage: -25° - +70°C (-13 – 158°F)
Housing	:	Norly UL94 – V-0
Display	:	6 Digit, LED, high- efficiency orange, 15 mm (0.59'')
Protection class	:	Front IP65, Rear IP20
Terminals	:	Signals max. 1.5 mm ² , AC power max. 2.5 mm ²
Switching outputs (DEDX13569)	:	PNP, max. 30 volts, max. 150 mA
Weight (net) approx.	:	450 g
Conformity and Standards	:	EMC 2004/108/EC: EN 61000-6-2 EN 61000-6-3 LV 2006/95/EC: EN 61010-1