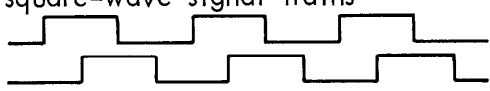


VRZ 116, 126, 136

1. Technical specifications

Counter types	bidirectional counters for 5 V encoders with incorporated pulse shaping electronics and long-length connecting cables. "Remote sensing" voltage supply for encoder
Counter features	VRZ 116: RESET only VRZ 126: RESET and PRESET VRZ 136: RESET, PRESET and MEMOSET
Type of housing	table model, suitable for stacking
Permissible shock load	2 g (0 to 150 Hz)
Weight	approx. 3.6 kg
Temperature ranges	operation 0° ... +45° C (32° ... 113° F) storage -30° ... +70° C (-22° ... 158° F)

Electrical data

No. of decades	6
Counting sequence	0-1-2-3-4-5-6-7-8-9
Decimal point	XXXX.XX (XXX.XX by altering soldered connections)
Arithmetical sign	0000.01 0000.00 -0000.01 etc. (no sign with positive values)
Display	7 segment LEDs
RESET	with "0" RESET push button
PRESET	with thumbwheel decade switches and "Δ" push button
MEMOSET (evaluation of reference marking)	with MEMOSET switch and thumbwheel decade switches
TTL-input signals	square-wave signal trains  Ua1 ( $\bar{U}a1$ ) Ua2 ( $\bar{U}a2$ ) (positive counting direction)
Spacing of slopes	Ua1/Ua2: $\cong 5 \mu s$
Input voltage range	-3 ... +7 V
Differential input voltage	$\cong 2 V$
Rated mains voltage	220 V~ or 115 V~ (voltage change-over switch)
Mains voltage range	187 ... 260 V or 98 ... 135 V
Mains fuse	0.4 A slow-blow for 220 V~ 0.63 A slow-blow for 115 V~
Mains frequency	49 to 61 Hz
Power consumption	approx. 20 VA
Fault detection	standard
Permissible cable length between encoder and VRZ counter	max. 50 m with I = 250 mA power lead $\cong 0.50 \text{ mm}^2$ sensor lead $\cong 0.14 \text{ mm}^2$

## 2. Input connection for encoder/transducer (12 poles)

Pin	Signal
1	$\overline{Ua2}$
2	sensor lead Up
3	$Ua0$
4	$\overline{Ua0}$
5	$Ua1$
6	$\overline{Ua1}$
7	vacant
8	$Ua2$
9	shield
10	power lead UN (0 V)
11	sensor lead UN
12	power lead Up (+ 5 V)

