



96vK1

Contact instruments

For measuring DC current or voltage
with 2 limit contact outputs

Technical data:

Movement	moving coil
Scale length:	60 mm
Class of acc.	1,5
Adjustable ranges:	max. contact: 2 ... 100 %, min. contact: 0 ... 98 %
Hysteresis:	≤ 1%
Aux voltage:	24V +20%-10% DC or 12V +20%-10% DC
Case:	plastic, UL 94-V1
Dimension:	96 x 24 x 125 mm
Protection:	IP40
Weight:	0,2 kg
Fixing elements:	with two screw-type fastening
Connection:	4,8 x 0,8 mm faston (DIN46247)
Terminals:	1-2 aux voltage, 3-4 max.limit 5-6 min. limit, 7-8 input



setup knob for min. limit value

zero setting knob

setup knob for max. limit value

Types:

96vK1

Transistor output:

Output voltage: approx. 24V DC (or approx 12V DC)
Load: min.160 Ω at 24V DC (3,6W)
min. 80 Ω at 12V DC (1,8W)
Protection: against overvoltage and short circuit

AMMETERS	Type 96vK1	int. resist Ω
Frame dimensions	96x24mm	
Measuring range	Cat. No. 1470-37	
50 μ A	001	6000
100 μ A	002	4500
250 μ A	004	1000
5 mA	011	3.6
10 mA	013	3.5
20 mA	015	2
25 mA	016	2.4
100 mA	019	0.6
1 A	024	0.06
1.5 A	025	0.04
2.5 A	026	0.024
4 A	027	0.015
6 A	028	0.01
*...A / 50mV	C01	10
*...A / 60mV	C02	12
*...A / 100mV	C03	20
*...A / 150mV	C04	30
*...A / 300mV	C05	60
4-20 mA	005	2.2

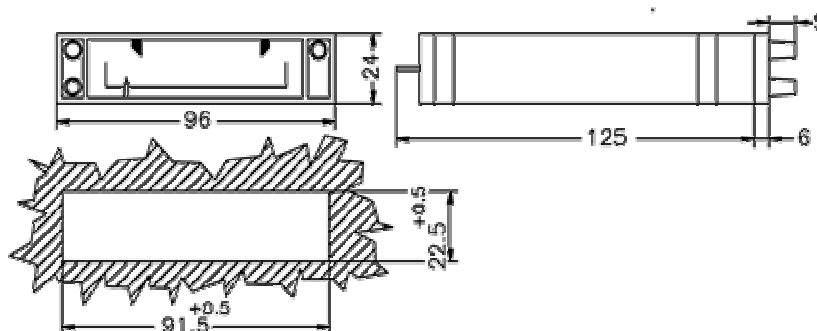
VOLTMETERS	Type 96 vK1	int. resist Ω
Frame dimensions	96x24mm	
Measuring range	Cat. No. 1470-37-	
1 V	036	1000 Ω /V ↓
1.5 V	037	
2.5 V	038	
4 V	039	
6 V	040	
10 V	041	
15 V	042	
25 V	043	
40 V	044	
60 V	045	
100 V	046	
150 V	047	

Note: on request types different from tables are accepted

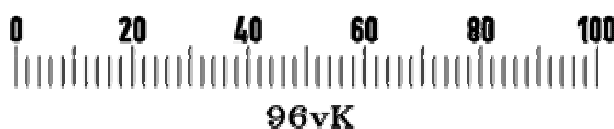
* For connection to separate shunt

For calibration of the instruments 0.035 Ω
wire resistance (=2x1m \varnothing 1 mm²) is
taken into consideration.

The tolerance of the internal resistance
is generally \pm 20%.



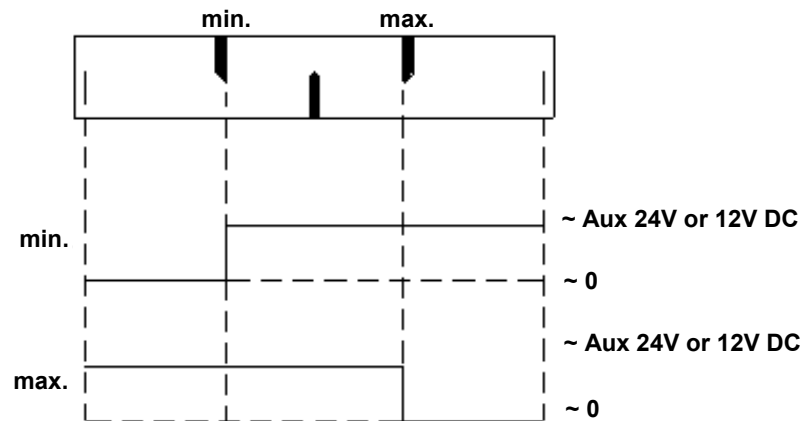
Scale (M=1:1)





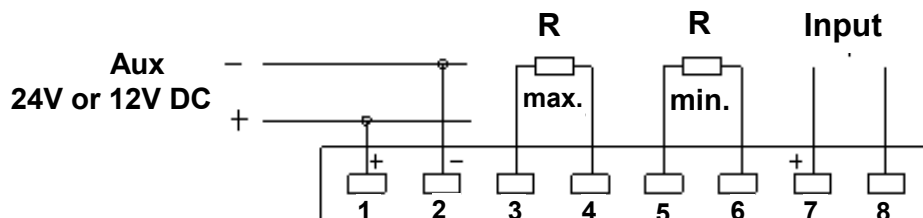
Operation diagram

The output value depends on the position of the pointer



Connection

Transistor output



Order specification:

- Panel mounted ammeter with limit value switch
- Frame size: 96x24 mm.
- Range: 5 mA
- scale: 0 ... 5 mA.
- Aux: 24V DC
- Transistor output

Ordering data:

- Type: 96 vK1
- Cat. No. 1470-37-011