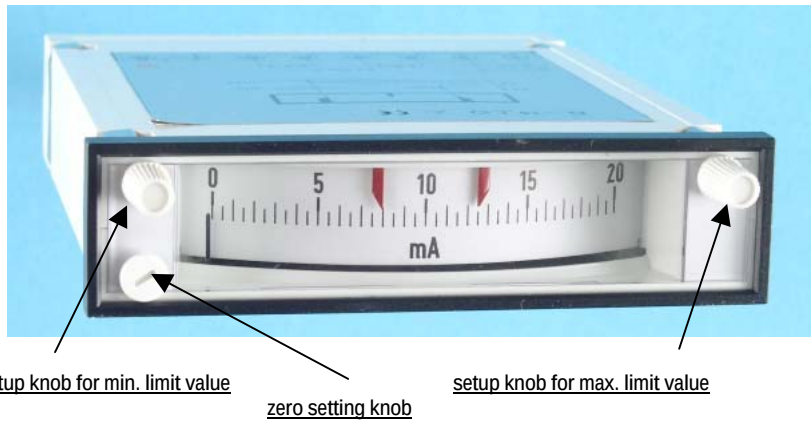
96vK1, 96vK2
Contact instruments

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

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: agaist overvoltage and short circuit

96vK2

Relay output:
Load: max.250V, max.1A, max.60W

AMMETERS	Type 96 vK1	Type 96 vK2	int. resist
Frame dimensions	96x24 mm		
Measuring range	Cat. No. 1470-37-	Cat. No. 2673-37-	Ω
50 µA	001	001	6000
100µA	002	002	4500
250µA	004	003	1000
5 mA	011	004	3.6
10 mA	013	005	3.5
20 mA	015	006	2
25 mA	016	007	2.4
100 mA	019	008	0.6
1 A	024	009	0.06
1.5 A	025	010	0.04
2.5 A	026	011	0.024
4 A	027	012	0.015
6 A	028	013	0.01
*…A / 50mV	C01	C01	10
*…A / 60mV	C02	C02	12
*…A / 100mV	C03	C03	20
*…A / 150mV	C04	C04	30
*…A / 300mV	C05	C05	60
4-20 mA	005	005	2.2

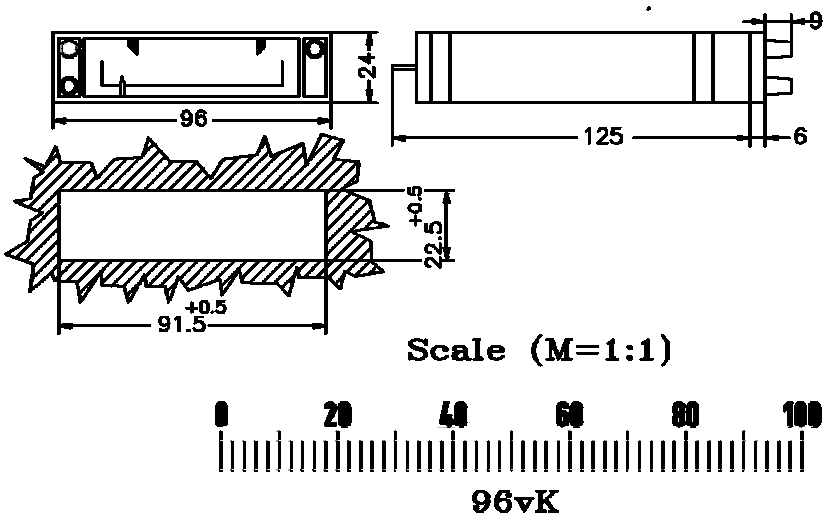
VOLTMETERS	Type 96 vK1	Type 96 vK2	int. resist.
Frame dimensions	96x24 mm		
Measuring range	Cat. No. 1470-37-	Cat. No. 2673-37-	
1 V	036	101	1000 Ω/V
1.5 V	037	102	↓
2.5 V	038	103	
4 V	039	104	
6 V	040	105	
10 V	041	106	
15 V	042	107	
25 V	043	108	
40 V	044	109	
60 V	045	110	
100 V	046	111	
150 V	047	112	
250 V	048	113	
300 V	049	114	

Note: on request types different from tables are accepted

* For connection to separate shunt

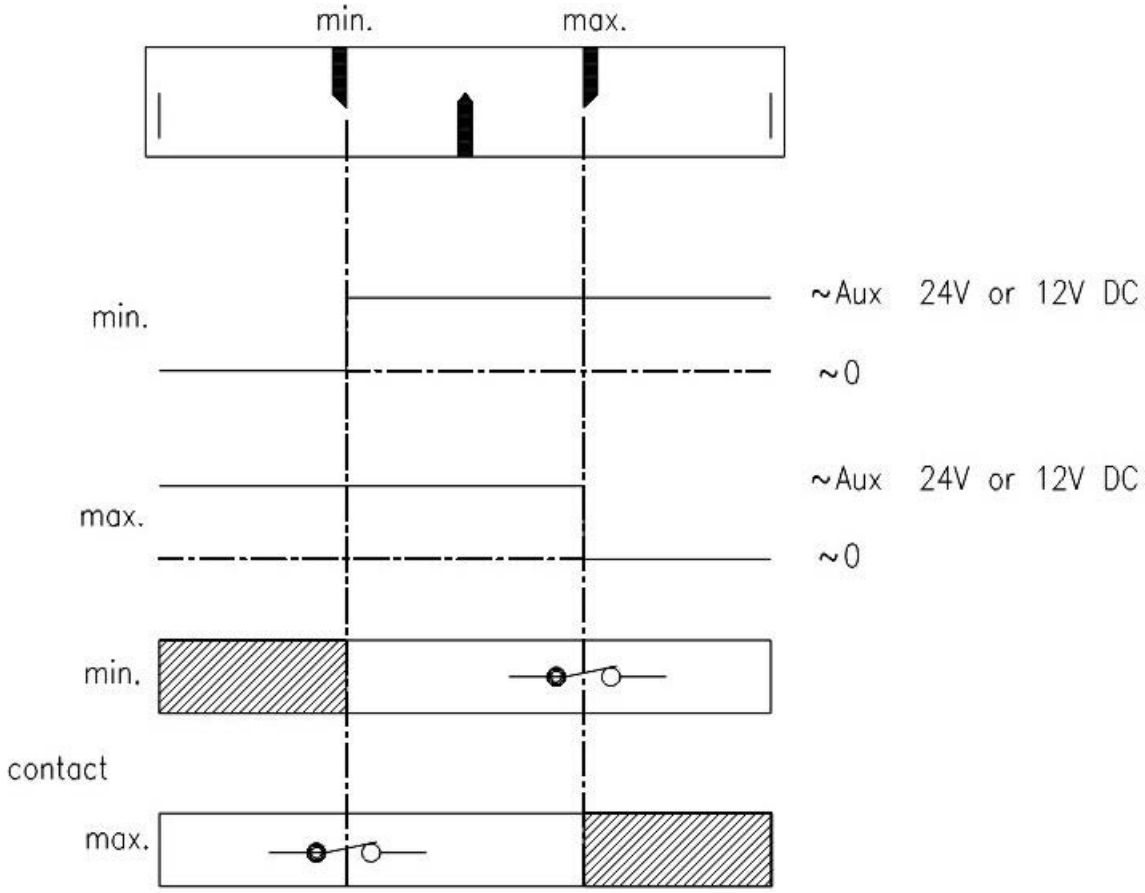
For calibration of the instruments 0.035 Ω wire resistance (=2x1m ∅1 mm^2) is taken into consideration.

The tolerance of the internal resistance is generally ±20%.

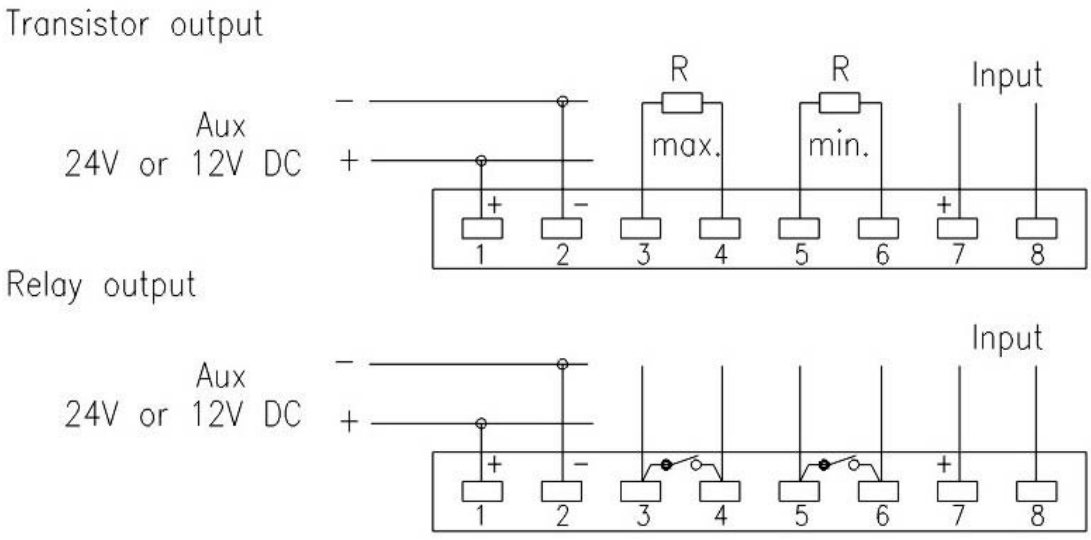


Operation diagram

The output value depends on the position of the pointer



Connection



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