CE

Model Number

KCN1-6SR-V

Features

- Counter/Timer/Tachometer
- Adding/subtracting via 2 separate inputs
- Batch controller with 1 pre-selection
- Easy-to-read, 2-line LCD display with symbols for indicated pre-selection and output status
- Display range and preselection range from -999999 up to 999999
  Overflow will be evaluated correctly up to 1 decade
- PNP and NPN sensors can be connected
- Protection degree IP65 (front only)

Technical data

General specifications		
Pre-selection		single
Data storage		10^6 storage cycles or 10 years
Programming		keypad-driven menu and programming switch
Functional safety related parameters		
$MTTF_d$		980 a
Mission Time (T_M)		10 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Type		2-line, 7-segment LC display with signs
Number of digits		6
Display value		digit height 9 mm
Pre-selection		digit height 7 mm
Key interlock		with "high"-level at terminal "KEY"
Display interval		-999999 ... 999999
Decimal point		0 to max 3 fractional digits
Scale factor		0.0001 ... 9.9999
Reset		manually or external
Electrical specifications		
Operating voltage	U_B	90 ... 260 V AC
Power consumption	P_0	max. 4 VA
Input		
Counting frequency		30 Hz / 10 kHz
Minimum pulse duration		5 ms
Impedance		approx. 10 kOhm
Voltage		low: 0 ... 4 V DC high: 12 ... 30 V DC
Counting method		adding or subtracting
Output		
Relay		250 V AC / 300 V DC, 3 A, changeover contact
Sensor supply		14.4 ... 27.6 V DC, 80 mA
Response time		6 ms
Ambient conditions		
Ambient temperature		0 ... 50 °C (273 ... 323 K)
Storage temperature		-25 ... 70 °C (248 ... 343 K)
Relative humidity		≤ 80 % (non-condensing)
Mechanical specifications		
Mass		approx. 240 g
Dimensions		48 mm x 48 mm x 110 mm

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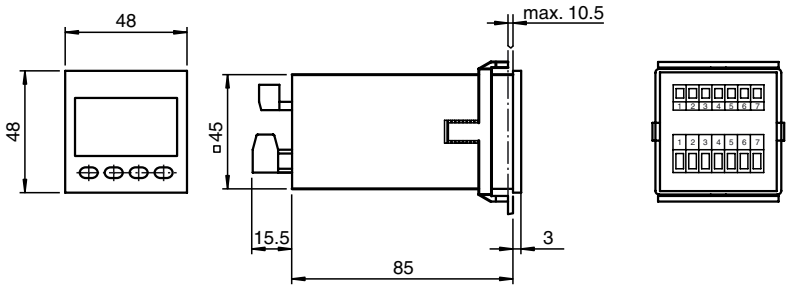
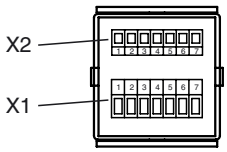
Dimensions



Electrical connection



Connection assignment X1

Supply voltage and outputs

Terminal No.	AC version	DC version
1	n.c.	
2	n.c.	
3	Relay output common contact (C)	
4	Relay output normally open contact (NO)	
5	Relay output normally closed contact (NC)	
6	Power supply 230 V AC	Operating voltage 11 ... 30 V DC
7	Power supply 230 V AC	0 V DC (GND)

Attention
In the case of selection of ⌝⌞ and ⌞⌜ (inverted relay control) the connections of terminals 4 and 5 are changed:

Terminal No.	AC and DC versions
4	Relay normally closed contact (NC)
5	Relay normally open contact (NO)

Connection assignment X2

Inputs

Terminal No.	Name	230 V AC version	10 ... 30 V DC version
1	+24 VDC	Sensor supply voltage	n.c.
2	0 VDC (GND)	Reference voltage	n.c.
3	INP A	Counter input A	
4	INP B	Counter input B	
5	RESET	Reset input	
6	GATE	Gate input	
7	KEY	Input of push-button lock	

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