

Produktinformation

Productivity Meter PR9648



- 2 digital inputs for summation, difference and ratio measurement
- Input prescaler programmable
- LED-Display 14.2 mm red, ± 99999 Digit
- Max. 4 alarm outputs, relay SPDT or transistor

Characteristics

The Productivity-Meter PR9648 analysis impulse rates, representing a speed, flow, passing time or revolutions per time. The displayed values therefore always refer to a determined time unit and represent productivity. There are extensive functions programmable. Since impulses and unit of a displayed value can take any relation, the device offers extensive conversion possibilities.

Technical data

Power supply

Supply voltage : 230 V AC $\pm 10\%$; 115 V AC $\pm 10\%$;
24 V AC $\pm 10\%$ or 24 V DC $\pm 15\%$
Power consumption : max. 3.5 VA, with analog output 5 VA
Operating temp. : $-10\ldots+55\text{ }^{\circ}\text{C}$
CE- conformity : EN 61326-1:2013
EN 60664-1:2007

Input

PNP sensor : $R_i = 6.3\text{ k}\Omega$
level: $< 4\text{ V}$ low; $> 8.5\text{ V}$ high;
hysteresis $> 2.5\text{ V}$; max. 35 V DC
Namur sensor : R_i approx. $1\text{ k}\Omega$ ($< 4\text{ mA}$)
level: $< 1\text{ mA}$ low; $> 2.2\text{ mA}$ high;
hysteresis $> 0.5\text{ mA}$; max. 35 V DC
Pulse frequency : input A or B = $0.1\text{ Hz}\ldots 15\text{ kHz}$,
A and B together = $0.1\text{ Hz}\ldots 8\text{ kHz}$,
contact = $0.1\text{ Hz}\ldots 30\text{ Hz}$,
2-channel rotary encoder = $0.1\text{ Hz}\ldots 10\text{ kHz}$

Min. pulse width : electronic $50\text{ }\mu\text{s}$, contact 5 ms
Time base : sec^{-1} , min^{-1} , h^{-1}
Accuracy : $\leq 0.003\% \pm 1\text{ Digit}$
Hold input : 24 V DC or contact
Transmitter supply : 8 V (Namur), 24 V DC (pnp), R_i appr. $150\text{ }\Omega$,
max. 50 mA (25 mA with 4 relay outputs)

Display

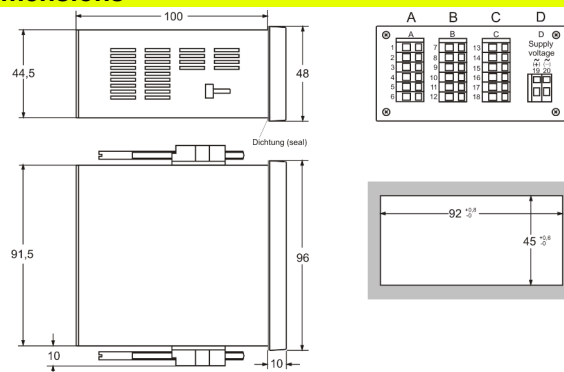
Parameter display : LED red, 14.2 mm, -99999..99999 Digit
(parameter and output indicator)

Output

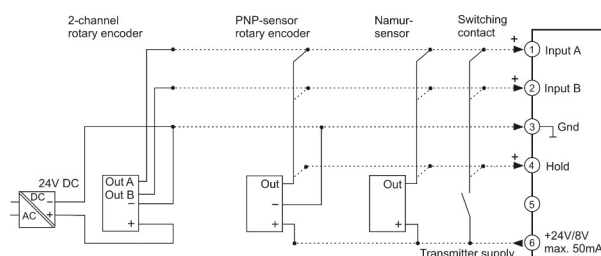
Relay : SPDT $< 250\text{ V AC}$ $< 250\text{ VA}$ $< 2\text{ A}$,
 $< 300\text{ V DC}$ $< 50\text{ W}$ $< 2\text{ A}$
Transistor : max. 35 V AC/DC, 100 mA,
with short circuit protection
Analog output : $0/4\ldots 20\text{ mA}$ burden $\leq 500\text{ }\Omega$; $0/2\ldots 10\text{ V}$,
burden $> 500\text{ }\Omega$, with isolation
-Accuracy : 0.1% ; TK $0.01\%/K$
Case : panel case DIN 96x48 mm,
material PA6-GF; UL94V-0
Dimensions : front 96x48 mm, mounting depth 100mm

Weight : max. 390 g
Connection : clamp terminals, $0.08\ldots 1.5\text{ mm}^2$,
AWG28..AWG14
Protection class : front IP65, terminals IP20 acc. to BGV A3

Dimensions



Connection diagram



Ordering code

PR9648 - 1. 2. 3. 4. 5. 6. 7.

1. Terminal strip A	
1	2 configurable impulse inputs, display conversion programmable, hold input, integrated transmitter supply 24V max. 50 mA
2. Terminal strip B	
00	not installed
2R	2 relay outputs
2T	2 electronic outputs
3. Terminal strip C	
00	not installed
2R	2 relay outputs
2T	2 electronic outputs
AO	analog output $0/4\ldots 20\text{ mA}$, $0/2\ldots 10\text{ V DC}$
4. Terminal strip D; supply voltage	
0	230 V AC $\pm 10\%$ 50-60Hz
1	115 V AC $\pm 10\%$ 50-60Hz
4	24 V AC $\pm 10\%$ 50-60Hz
5	24 V DC $\pm 15\%$
5. Options	
00	without option
01	min- and max- peak hold
6. Unit (appears in the unit field)	
7. Additional text placed above the display (3x90 mm HxW)	