

# 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 ±10 %; 115 V AC ±10 %;  
24 V AC ±10 % or 24 V DC ±15 %

Power consumption : max. 3.5 VA, with analog output 5 VA

Operating temp. : -10..+55 °C

CE- conformity : EN 61326-1:2013  
EN 60664-1:2007

### Input

PNP sensor : Ri = 6.3 kΩ  
level: < 4 V low; > 8.5 V high;  
hysteresis > 2.5 V; max. 35 V DC

Namur sensor : Ri approx. 1 kΩ (< 4 mA)  
level: < 1 mA low; >2.2 mA high;  
hysteresis > 0.5 mA; max. 35 V DC

Pulse frequency : input A or B = 0.1 Hz..15 kHz,  
A and B together = 0.1 Hz..8 kHz,  
contact = 0.1 Hz..30 Hz,  
2-channel rotary encoder = 0.1 Hz..10 kHz

Min. pulse width : electronic 50 μs, contact 5 ms

Time base : sec<sup>-1</sup>, min<sup>-1</sup>, h<sup>-1</sup>

Accuracy : ≤ 0.003 % ± 1 Digit

Hold input : 24 V DC or contact

Transmitter supply : 8 V (Namur), 24 V DC (pnp), Ri appr. 150 Ω,  
max. 50 mA (25 mA with 4 relay outputs)

Display : LED red, 14.2 mm, -99999..99999 Digit

Parameter display : LED 2-digit red, 7 mm  
(parameter and output indicator)

### Output

Relay : SPDT < 250 V AC < 250 VA < 2 A,  
< 300 V DC < 50 W < 2 A

Transistor : max. 35 V AC/DC, 100 mA,  
with short circuit protection

Analog output : 0/4..20 mA burden ≤ 500 Ω; 0/2..10 V,  
burden > 500 Ω, with isolation

-Accuracy : 0.1 %; TK 0.01 %/K

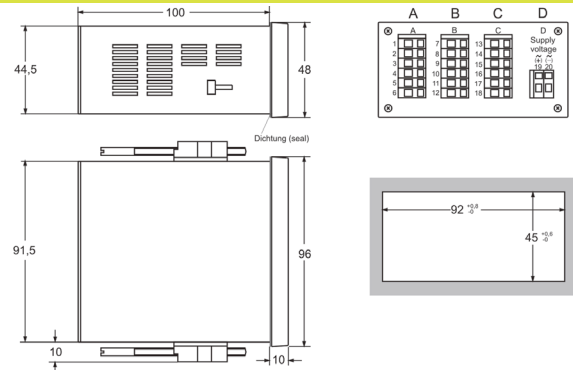
Case : panel case DIN 96x48 mm,  
material PA6-GF; UL94V-0

Dimensions : front 96x48 mm, mounting depth 100mm

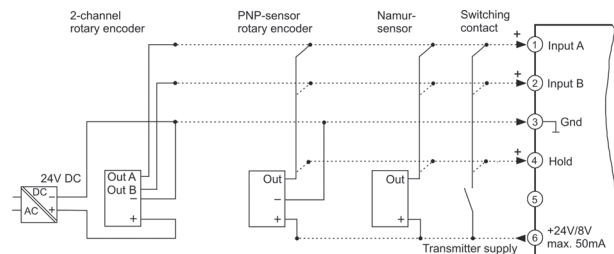
Weight : max. 390 g  
Connection : clamp terminals, 0.08..1.5 mm<sup>2</sup>,  
AWG28..AWG14

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..20 mA, 0/2..10 V DC
4. Terminal strip D; supply voltage	
0	230 V AC ±10 % 50-60Hz
1	115 V AC ±10 % 50-60Hz
4	24 V AC ±10 % 50-60Hz
5	24 V DC ±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)	