

Pulse Scaler for DIN Rail Attachment



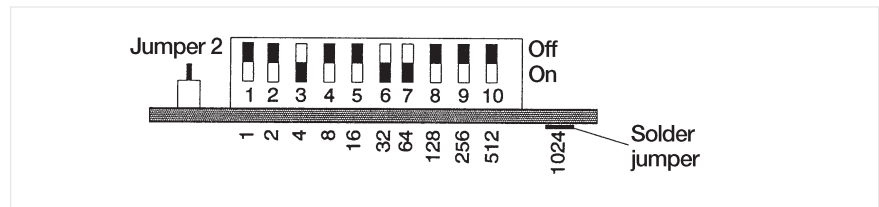
PROGRAMMING

- Programmable pulse scaling factor up to 2047:1
- NAMUR generator input
- PNP transistor output
- Max. pulse frequency 5 kHz
- 35 mm DIN rail attachment

The divisor is set in binary code by means of DIL switches. To obtain a divisor value of 100, e.g. switches S7, S6, and S3 must be set (100 = 64 + 32 + 4).

Programming the signal duration

Ordering code 0 651 109: 0.2 ... 1 ms (jumper 2 open) or 20 ... 100 ms (jumper 2 closed) Ordering code 0 651 114: 1 ... 20 ms (jumper 2 open) or 100 ms ... 2s (jumper 2 closed).



TECHNICAL DATA

Supply voltage V_{op}	10 ... 30 VDC \pm 10 %
Current consumption	< 10 mA
Operating temperature	- 10 ... + 60 °C
Storage temperature	- 20 ... + 70 °C
Electrical connection	screw terminals
Mounting	35 mm DIN rail attachment
Protection class (IEC 144)	IP 50, connections IP 00
Vibrostability	50 m/s ² acc. to IEC 068-2-6
General design	acc. to DIN VDE 0411

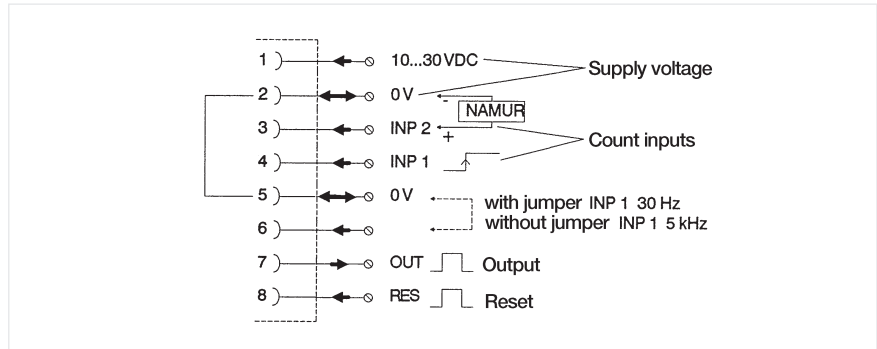
Inputs	
Amplitude thresholds	< 2 V and > 8 V or NAMUR
Active edge	positive or NAMUR
Pulse shape	random (squarewave 1:1 for max. frequency)
Input resistance	approx. 5 k Ω

Count input	
Min. pulse duration	> 100 μ s (5 kHz), 17 ms (30 Hz)
Max. counting frequency	5 kHz or 30 Hz
Control input	
Reset	- external pulse, pulse length > 17 ms - by switching the supply voltage off and on (start-up reset)

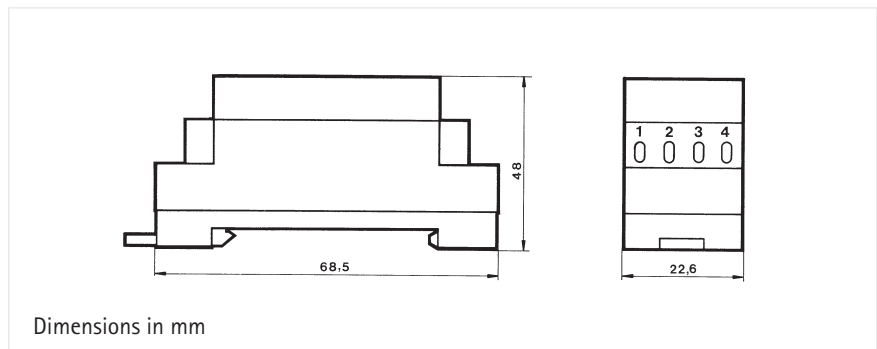
Output	
Signal type	PNP
Signal duration	Ordering code 0 651 109, 0.2 ... 1 ms or 20 ... 100 ms Ordering code 0 651 114, 1 ... 20 ms or 100 ms ... 2 s
Switching voltage	approx. V_{op}
Switching current	100 mA

Technical data

CONNECTION DIAGRAM



DIMENSIONED DRAWING



ORDER INFORMATION

Setting range of the output impuls		
Input	max. 100 ms	max. 2 s
PNP	0 651 109	--
PNP and NAMUR	0 651 108	0 651 114

Attention:

If Version 0 651 108 or 0 651 114 is operated with the PNP input INP 1, then the NAMUR input INP 2 must be connected to 0 V. The simultaneous use of both inputs is not possible!