

IPG 14

Pulse generator

Your benefits

- Determination of continuous flow rate: **Reliable process control**
- Integrated protective resistance: **Protection against overload**

Applications

- The pulse generator IPG14 found in GWF volume measuring parts is a component of heat meters and GWF water meters for remote indication, pulse collectors, pulse processing systems / long term pulse acquisition systems and frequency converters

Properties

- Low frequency pulse generator
- Potential free Reed contact
- Variety of pulse values available
- High switching cycle number
- Protection class IP67

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Technical Data

Switching element		Reed
Switching voltage	U_{max}	max. 42 V AC/DC
Switching current	I_{max}	100 mA
Switching capacity	P_{max}	4 W
Resistor	R	18 Ohm
Conductor cross section		0,14 mm^2
Switching cycles		app. 10^7

Meter	Cable length	Isolation	Thermal limits
UNICO®	1,5 m / 3 m	PVC grey	max. 90 °C
MTK, MTW	1,5 m, 3 m, 5 m	PVC grey / TPE grey	max. 90 °C / max. 130 °C
MTH	1,5 m, 5 m	TPE grey	max. 130 °C

Pulse values

Meter	Size: q_p/Q_n	Size: Q_3	Pulse value (1 Pulse = ...liter)					
UNICO®	0,6-1,5	1-2,5	-	0,25	1	2,5	10	25
UNICO®	2,5	4	1	2.5	10	25	100	250
MTK, MTW, MTH	1,5-6	2,5-10	1[1)]	2,5	10	25	100	250
MTK, MTW, MTH	10-15	16-25	-	2,5	10	25	100	250

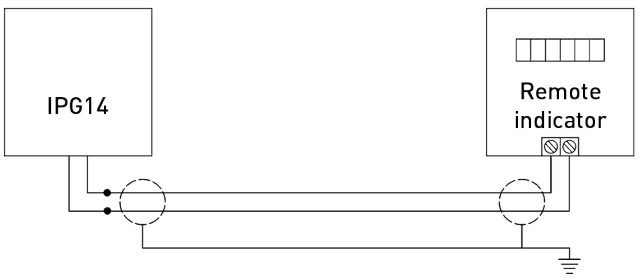
1) Only measuring range 1:25 / R40 available

Application

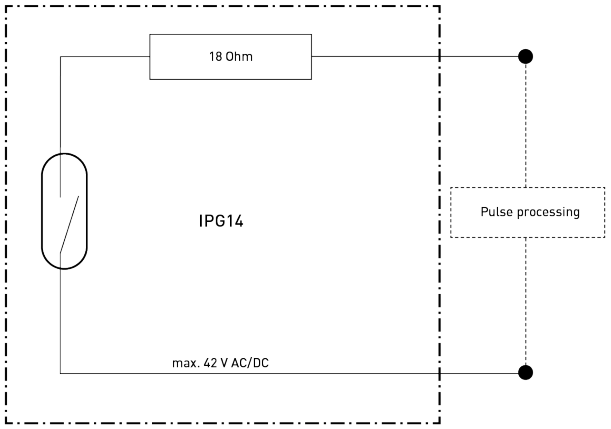
Heat consumption



Remote indicator



Connection scheme



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Installation – Recommendations

Continuous contact

The Reed switch emits pulses of varying length depending on the water meter flow rate. Continuous contact can also occur when the roller counter is standing still. Connected devices must be able to withstand continuous contact or protective measures must be provided (wiping contact).

Long cable distances

For cable distances greater than 100 m without signal amplifier, we recommend the use of shielded and twisted cables.

See cable recommendations for electricians - BAe20603

Pulse transmission interference

In case of interference during the pulse transmission between the pulse generator and the pulse receiver, (i.e. cable is in the same duct as power cable), we recommend shielded and twisted cables.

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