



## IWA 20 Inductive Local Converter

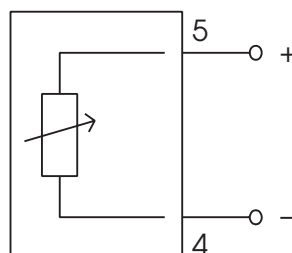
The IWA 20 amplifies the output signal KEM flow meters and converts it into an analogue signal of 4 to 20 mA. In addition, the measuring frequency is provided by an open collector transistor output.



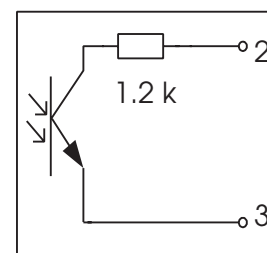
### Technical Data

- output signals:
- a) load independent current 4 to 20 mA, pin 5 (+), pin 4 (-)
  - b) measuring frequency 1:1, pin 2 (collector), pin 3 (emitter)  
open collector output NPN-switching with  
serial resistor 1.2 k $\Omega$ , U<sub>max</sub> 30 V  
U<sub>high</sub>: > U – (I<sub>out</sub> (mA) x 1.2 k $\Omega$ )  
U<sub>low</sub>: < 0.6 V + (I<sub>out</sub> (mA) x 1.2 k $\Omega$ )

a) 4-20 mA



b) Open Collector



### Technical Data (continued)

operating voltage Iout, UB:	14 up to 30 VDC controlled, pin 5 (+), pin 4 (-)
measuring frequencies:	9 up to 3,000 Hz according to flow meter
permissible load, RL:	(UB - 12 V) : 20 mA, max. 800 Ω
response time:	250 msec
temperature drift:	< 0.10% / 10 K
electrical connection:	5-pin plug 1 = n.c. 2 = frequency output 3 = 0 V 4 = -I 5 = +I
ambient temperature:	-20 up to +50°C
medium temperature:	-20 up to +120 °C with a distance of at least 25 mm flow meter and electronic housing -20 up to +150 °C with a distance of at least 65 mm between flow meter and electronic housing
material:	stainless steel
dimensions:	∅ 20 mm, h = see below
ingress protection:	IP 65
thread:	M14 x 1.5 or M10 x 0.75
weight:	100 g

### Ordering Information

IWA 20/\*

Design

- K = short thread M14 x 1.5, h = 123 mm
- L = long thread M14 x 1.5, h = 210 mm
- F = short thread M10 x 0.75, h = 130 mm

