

Certified according to DIN EN ISO 9001

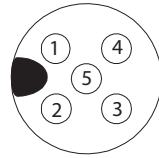
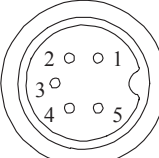
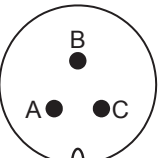
## Technical Datasheet



## VTE02 / VIE02

Carrier-Frequency and Inductive Pulse Amplifiers

## Technical Data

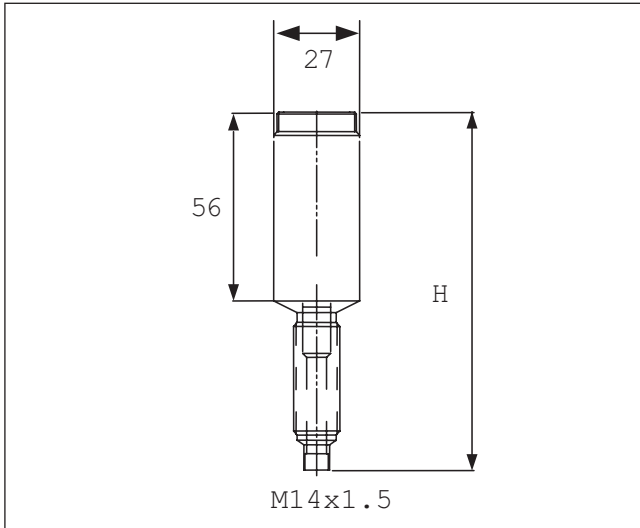
Supply voltage $U_B$	10 up to 30 V DC, regulated 7 up to 30 V DC („U“, NAMUR operation) 5 up to 10,5 V („N“)	
Quiescent current	< 1 mA	
Frequency range	0.5 up to 5,000 Hz	
Ambient temperature	-40 up to +80°C (T3) -40°C up to +60°C (T4)	
Medium temperature	-40 up to +125°C <sup>1)</sup>	
Housing	Stainless steel as per DIN 1.4104	
Dimensions	see drawing	
Ingress protection	IP 65	
Ex protection	CSA: Ex ia IIC T4; ATEX, IECEx: in preparation	
Electrical Connection <sup>2)</sup>	5-pin plug M12 SPEEDCON 1 = +UB 2 = n.c. / NAMUR- („N“, „U“) 3 = 0 V (not „N“) 4 = Signal Push Pull (not „N“) 5 = n.c.	
	5-pin plug M16 423 (upon request) 1 = +UB 2 = Signal Push Pull 3 = 0 V 4 = n.c. 5 = n.c.	
	3-pin amphenol plug (upon request) A = +UB B = 0 V C = output	

1) Minimum distance between VTE\* housing and meter: 25 mm

2) Other connectors / pinnings on request.

Ex-Supply Data		
Supply circuit (pin 1 and 3) (Version P, U)	Voltage Current Power effective internal capacitance	$U_i = DC 30 V$ $I_i = 120 mA$ $P_i = 850 mW$ $C_i = 8 nF$
Signal current circuit push/ pull/pin 3 and 4 version, P, U)	Voltage Current Power effective internal capacitance	$U_i = 30 V$ $I_i = 24.6 mA$ $P_i = 185 mW$ $C_i = 8 nF$
Ex-Supply Data Version „N“ NAMUR		
Supply and signal circuit (pin 1 and 2)	Voltage Current Power effective internal capacitance	$U_i = DC 10,5 V$ $I_i = 16 mA$ $P_i = 40 mW$ $C_i = 8 nF$

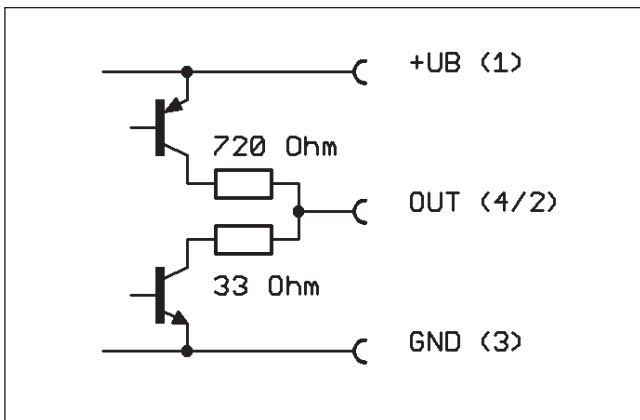
## Dimensional drawing (mm)



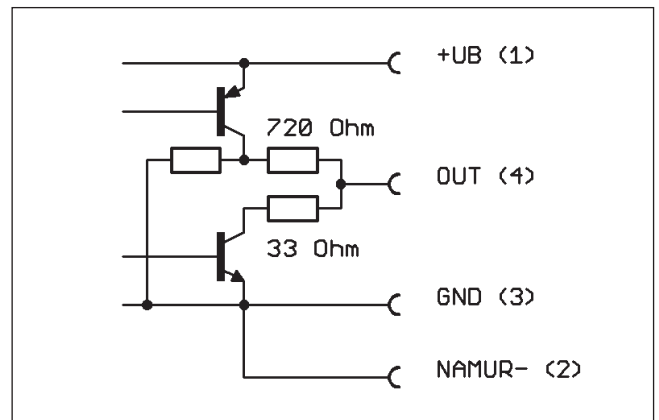
Type	H
V*E 02 - K	110 mm
V*E 02 - R	110 mm
V*E 02 - L	149 mm
V*E 02 - S	149 mm

## Output (short-circuit proof)

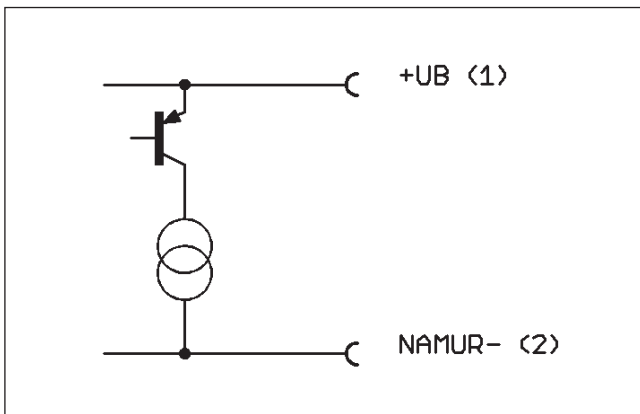
Push Pull



Push Pull + NAMUR

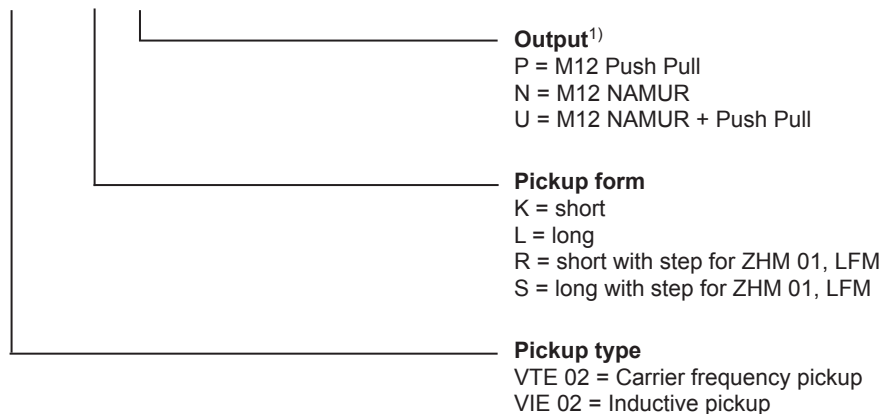


NAMUR



## Ordering Information

V\*E 02 - \* - \*



1) Other connectors / pinnings on request.

## Notes on Installation

The following has to be adhered to:

- a. Installation instructions for electrical devices  
Installation instructions for associated intrinsically-safe devices  
The »Special conditions for safe use« as per EC-Type Examination Certificate
- b. The amplifier has to be installed in a way that the max. ambient temperature does under no circumstances exceed +60°C (consider self heating).
- c. With cables care should be taken, that the max inductivity and capacity of the respective voltage or gas group are not exceeded
- d. Exceeding or falling below the regular measuring range will cause invalid frequency output signals.
- e. Shielded cables are to be used as connecting lines.
- f. Generally, supplied units have to be connected by an expert according to EMC stipulations.
- g. Disconnect power supply before making electrical connection.

**KEM Headquarter**

Liebigstraße 5  
85757 Karlsfeld  
Germany

T. +49 8131 59391-0  
F. +49 8131 92604

info@kem-kueppers.com

**KEM Service & Repairs**

Wetzeller Straße 22  
93444 Bad Kötzting  
Germany

T. +49 9941 9423-0  
F. +49 9941 9423-23

info@kem-kueppers.com



*More distributors & partners can be found at:  
[www.kem-kueppers.com](http://www.kem-kueppers.com)*

Your local partner:



[www.kem-kueppers.com](http://www.kem-kueppers.com)  
info@kem-kueppers.com