

По вопросам продаж и поддержки обращайтесь:
Волгоград (844)278-03-48; Воронеж (473)204-51-73; Екатеринбург (343)384-55-89; Казань (843)206-01-48;
Краснодар (861)203-40-90; Красноярск (391)204-63-61; Москва (495)268-04-70; Нижний Новгород (831)429-08-12;
Новосибирск (383)227-86-73; Ростов-на-Дону (863)308-18-15; Самара (846)206-03-16; Санкт-Петербург (812)309-46-40;
Саратов (845)249-38-78; Уфа (347)229-48-12
Единый адрес: kmk@nt-rt.ru

www.kem.nt-rt.ru

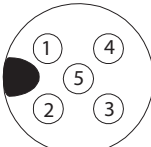
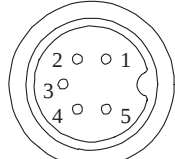
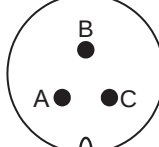
Technical Datasheet



VTE02 / VIE02

Carrier-Frequency and Inductive Pulse Amplifiers

Technical Data

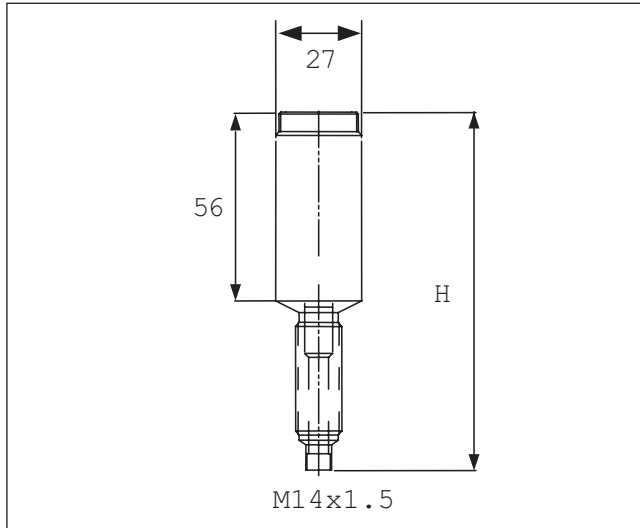
Supply voltage U_B	10 up to 30 V DC, regulated 7 up to 30 V DC („U“, NAMUR operation) 5 up to 10,5 V („N“)	
Quiescent current	< 1 mA	
Frequency range	0.5 up to 5,000 Hz	
Ambient temperature	-40 up to +80°C (T3) -40°C up to +60°C (T4)	
Medium temperature	-40 up to +125°C ¹⁾	
Housing	Stainless steel as per DIN 1.4104	
Dimensions	see drawing	
Ingress protection	IP 65	
Ex protection	CSA: Ex ia IIC T4; ATEX, IECEx: in preparation	
Electrical Connection ²⁾	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	$U_i = \text{DC } 30 \text{ V}$
	Current	$I_i = 120 \text{ mA}$
	Power	$P_i = 850 \text{ mW}$
	effective internal capacitance	$C_i = 8 \text{ nF}$
Signal current circuit push/ pull/pin 3 and 4 version, P, U)	Voltage	$U_i = 30 \text{ V}$
	Current	$I_i = 24.6 \text{ mA}$
	Power	$P_i = 185 \text{ mW}$
	effective internal capacitance	$C_i = 8 \text{ nF}$
Ex-Supply Data Version „N“ NAMUR		
Supply and signal circuit (pin 1 and 2)	Voltage	$U_i = \text{DC } 10,5 \text{ V}$
	Current	$I_i = 16 \text{ mA}$
	Power	$P_i = 40 \text{ mW}$
	effective internal capacitance	$C_i = 8 \text{ nF}$

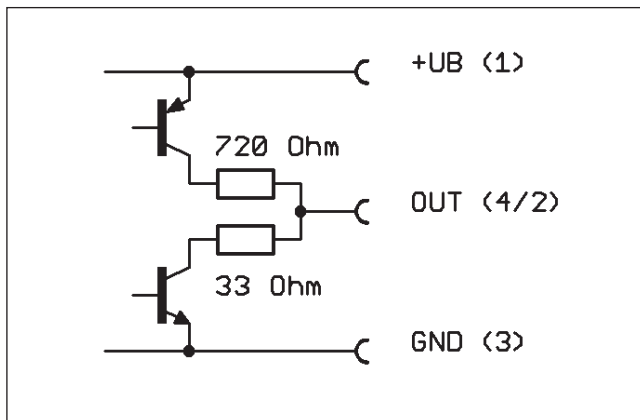
Dimensional drawing (mm)



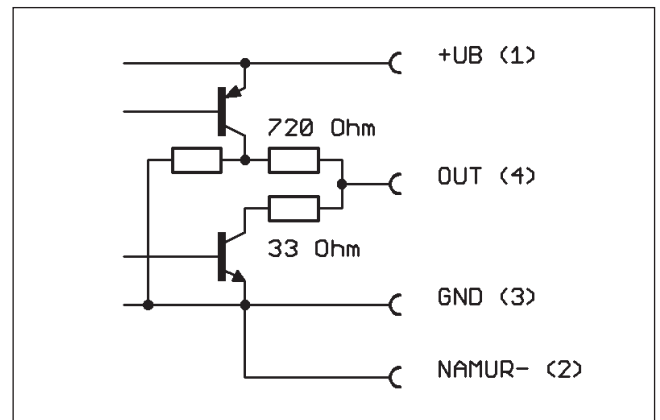
Type	H
V*E 02 - K	110 mm
V*E 02 - R	110 mm
V*E 02 - L	149 mm
V*E 02 - S	149 mm

Output (short-circuit proof)

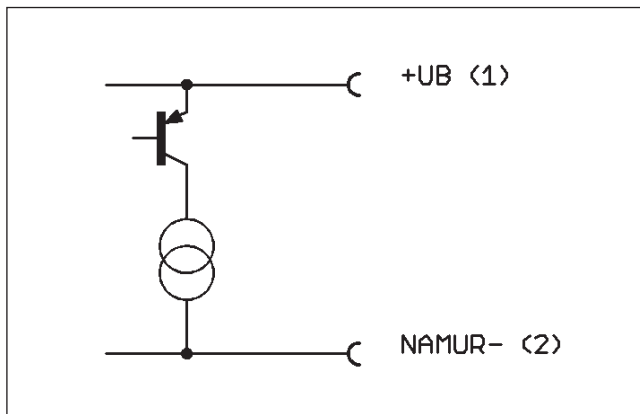
Push Pull



Push Pull + NAMUR

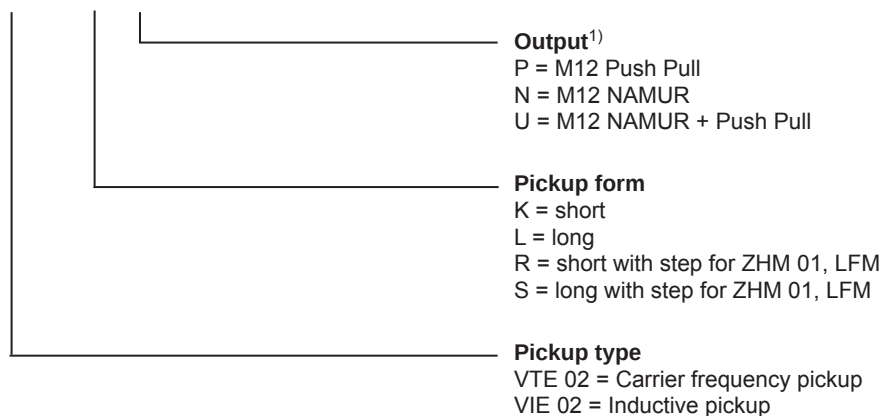


NAMUR



Ordering Information

V*E 02 - * - *



1) Other connectors / pinnings on request.

Notes on Installation

The following has to be adhered to:

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

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