



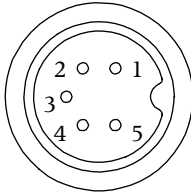
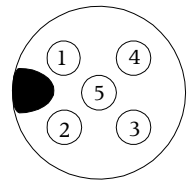
Certified according to DIN EN ISO 9001

Technical Datasheet



VTE*-**-*-Ex Pulse Amplifier

Technical Data

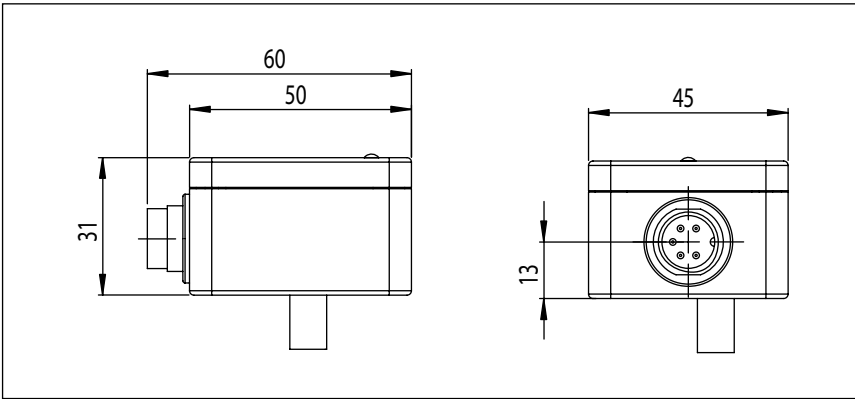
Supply voltage U_B	10 up to 30 V DC, regulated	
Quiescent current	< 2 mA	
Frequency range	0.5 up to 5,000 Hz	
Ambient temperature	-40 up to +60°C	
Medium temperature	-40 up to +60°C (VTEF/C/M) -40 up to +125°C (VTEK/L/R) ¹⁾	
Housing	Aluminium	
Dimensions (w/o connector)	l = 50 mm; w = 45 mm; h = 30 mm (VTEF/K/L/R) l = 50 mm; w = 50 mm; h = 25 mm (VTEC/M)	
Ingress protection	IP 65	
Ex protection	ATEX:  II 2 G Ex ia IIC T4 IEC Ex:  ia IIC T4 Gb	
Electrical connection	5-pin plug M16 423 (S) 1 = +UB 2 = signal push pull 3 = 0 V 4 = nc 5 = nc	
	5-pin plug M12 SPEEDCON (H) 1 = +UB 2 = n.c. 3 = 0 V 4 = Signal Push Pull 5 = n.c.	

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

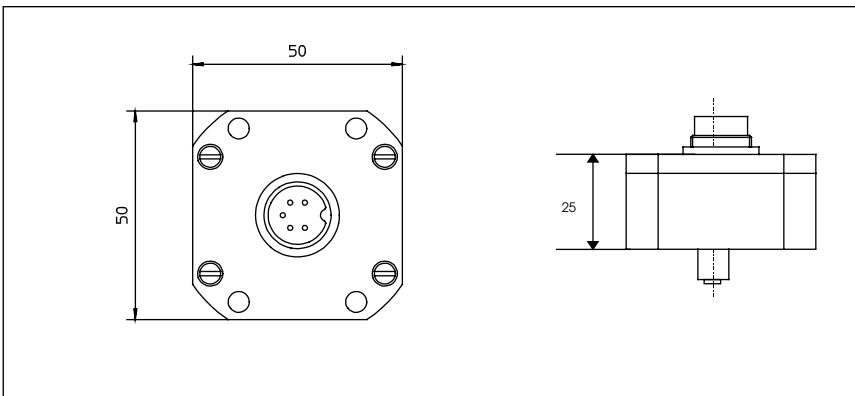
Ex-Supply Data		
Supply circuit (pin 1 and 3)	Voltage Current Power effective internal capacitance	$U_i = DC 30 V$ $I_i = 120 mA$ $P_i = 850 mW$ $C_i = 8 nF$
Signal current circuit push/pull (pin 2 and 3 Version S/ pin 3 and 4 version H)	Voltage Current Power effective internal capacitance	$U_i = 30 V$ $I_i = 24.6 mA$ $P_i = 185 mW$ $C_i = 8 nF$

Dimensional Drawings (mm)

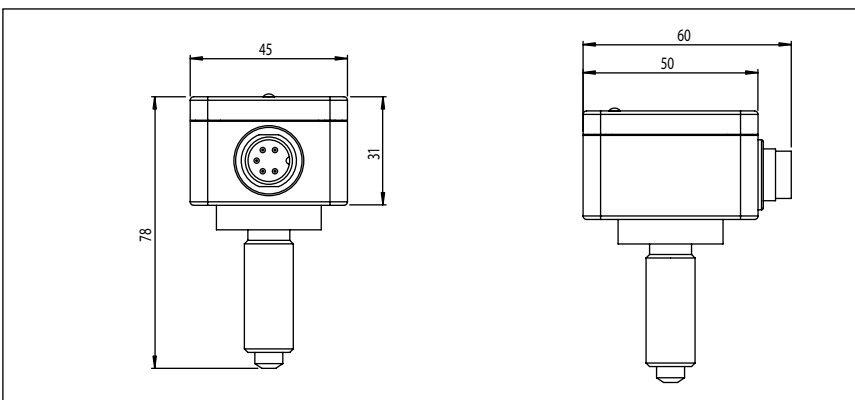
VTEF (Diecast for direct mount)



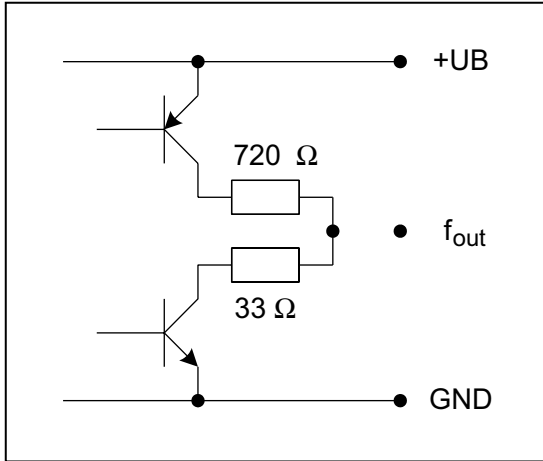
VTEC/M (Cartridge for direct mount)



VTEK/L/R (Diecast for screw-in mount)

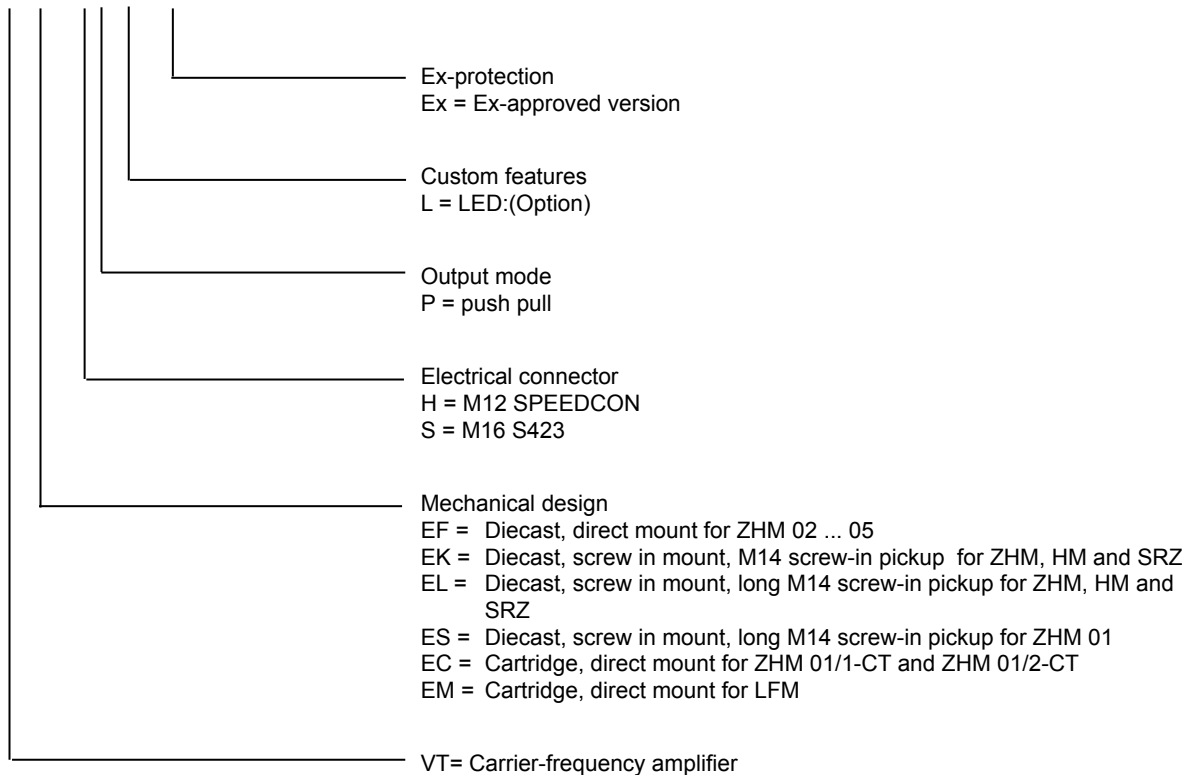


Output (short-circuit proof)



Ordering Information

V** - ** - * - Ex



Notes

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. Input frequencies outside the specified range (see technical data) 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 soldering the electrical connector.

Marking

KEM Küppers Elektromechanik GmbH

CE 0123  II 2G ia IIC T4

BVS 08 ATEX E 101

V* **-**-*-Ex Ser.Nr.

-20 °C ≤ Ta ≤ +60 °C

Ui=30V/DC; li = 120mA; Pi = 850mW; Pin 1 and 3

Ui=30V/DC; li = 24.6mA; Pi = 185mW; Pin 2 and 3, 4 and 3

Contact

KEM Headquarter

Liebigstraße 5
85757 Karlsfeld
Germany

T. +49/8131/ 59 39 1-0
F. +49/8131/ 92 60 4

info@kem-kueppers.com

KEM Service & Repairs

Wetzeller Straße 22
93444 Bad Kötzing
Germany

T. +49/9941/ 94 23 0
F. +49/9941/ 94 23 23

info@kem-kueppers.com

*More distributors & partners can be found at:
www.kem-kueppers.com*

Your local partner:



www.kem-kueppers.com
info@kem-kueppers.com