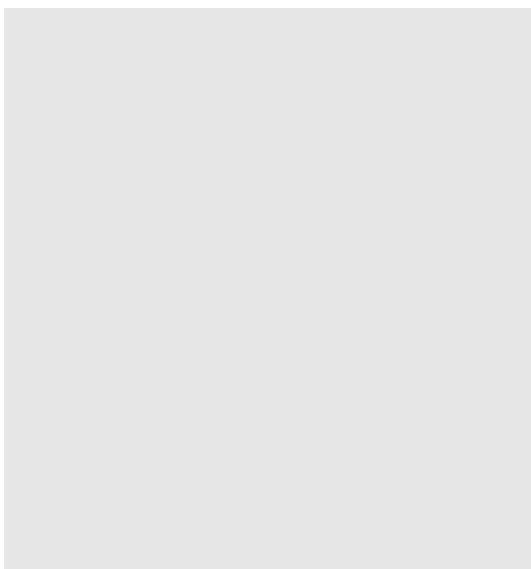
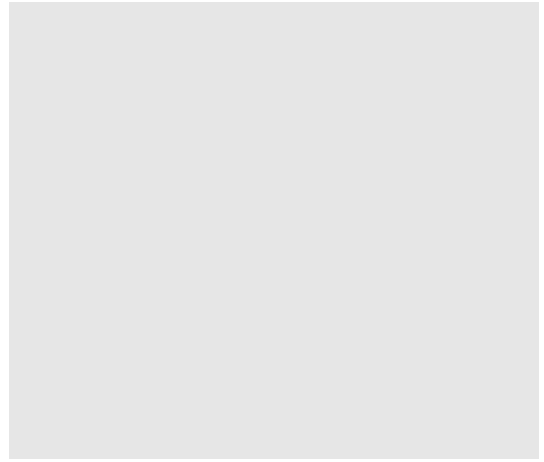
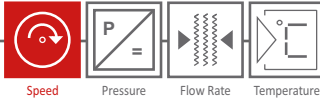


UNIVERSAL BUFFER STAGE TR 1703 for square wave, sine wave, cosine wave and frequency signal



Rev.-Nr.: TR 1703-DS 1.10 E-V0.6 2020-09-17



General information

The buffer stage serves as the galvanic separation of incremental impulses (0 - 200 KHz) and their bypass into different installation parts. It is equipped with a programmable digital divider 1 - 500 in order to process high impulse signals in to a measured data acquisition system.

All kinds of signals and divider functions can be adjusted by the customer with jumpers at the front.

- One and multiquadrant operation
- Frequency range 0 - 200 kHz
- Input level TTL - HTL
- Output level 5-15-24 V
- Frequency divider integer (1-500) programmable (option P4)

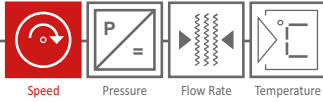
Technical data

SIGNAL INPUTS	
TTL COMPLEMENTARY RS 422	level (S..+) - (S..-) > 0,5 V; impedance approx. 10 kOhm
TTL UNIPOLAR (S..- = GND)	Hi level > 1,9 V; Lo-level < 1,3 V; impedance approx. 5 kOhm
HTL COMPLEMENTARY *	level (S..+) - (S..-) > 2 V; impedance approx. 94 kOhm
TL UNIPOLAR (S..- = GND)	Hi level > 7,5 V; Lo level < 2,9 V; impedance approx. 47 kOhm
TL	UCM max = S..+ ... S..- = 30 V; fmax = 200 kHz
HTL	UCM max = S..+...S..- = 100V; fmax = 200 kHz

SIGNAL OUTPUTS	
HI LEVEL	5 V 15 V 24 V
LO LEVEL	0,6 V short-circuit proof, internal resistance about 75 Ohm, current approx. 50 mA

OPTION P4	
IMPULSE SCALER FOR INCREMENTAL SIGNALS	For the acquisition of actual values of speed where high impulse encoder frequencies are unwanted. These can be subdivided by integers in the pulse scaler. The programming is done using jumpers on the front side. The following splitting ratios are possible: mode 1: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 mode 2: 16 - 20 - 24 - 32 - 40 - 48 - 64 - 100 - 128 - 150 - 200 - 250 - 300 - 400 - 500
IMPULSE SCALER FOR SINGLE COMPONENT SIGNALS	The feeding of the single-component signal is carried out on input S1 exclusively. The 2nd channel for the frequency divider gets simulated, which means the signal input S2 is not available for external signals. Splitting ratio according to incremental signal.

OPTION P5	
INPUT COMPARATOR	Input comparator for complementary sine/ cosines wave; level ³ 1 V



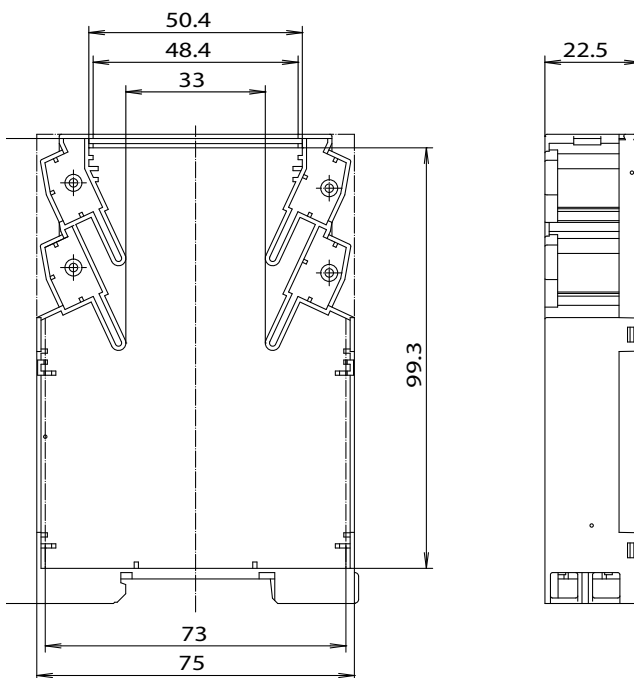
GENERAL

FREQUENCY RANGE	0-200 kHz
SUPPLY VOLTAGE [V]	12 - 28 V DC; max. 8 Watt
TEST VOLTAGE [mA]	3 kV
AMBIENT TEMPERATURE	0 ... +60°C
STORAGE TEMPERATURE	-20 ... +85 °C
ELECTROMAGNETIC LOAD	according to EN61326-1, EN61326-2-3 industrial environment
HUMIDITY CLASS	E = according to DIN 40040
CONNECTION/ CLAMPS	Bopla AK 8191/3 DL/DR, protection class IP 20 according to DIN EN 60529

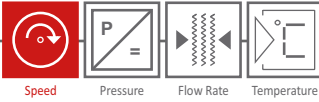
HOUSING & WEIGHT

PROTECTION CLASS	IP 40 according to DIN EN 60529
HOUSING MATERIAL	PA 6.6-FR (UL 94 V0)
DIMENSIONS	height: 75 mm width: 22,5 mm depth: 110,8 mm
MOUNTING	DIN rail according to DIN EN 60715 TH 35
WEIGHT	100 gr

DIMENSION ILLUSTRATION



Rev.-Nr.: TR 1703-DS 110 E-V0.6 2020-09-17



Fluidistor Gas Flowmeter GD 300 Ex

The Fluidistor Gas Flowmeter measures all technical and medical gases with a nominal width of DN 25 to DN 400 and a measurement range of 0,2 ... 20 ... 16.000 m³/h. Process connection: Wafer/ sandwich of flange
 Pressure: PN 10 - PN 25 - PN 40
 Accuracy: ± 1,5 %

For further information see datasheet DS 312 E.



Compact Fluidistor Gas Flowmeter GD 500 Ex

The Compact Fluidistor Gas Flowmeter (stainless steel 1.4571) measures all technical and medical gases with a measurement range of 0,21 - 16,8 m³/h. Process connection G 1/2", G 1".
 Pressure: PN 10 - PN 25 - PN 40
 Accuracy: ± 1,5 %
 For further information see datasheet DS 312 E.

Your local contact: