

The Impulser has been developed in 1977 in co-operation with electronics engineers as accessory for the control of our "Pneumatic Knocker", because cheap apparatus with a long time range were not deliverable on the german market. The Impulser has been improved several times with regards to the state of engineering and is now fabricated in C-MOS-technique.

### GENERAL DESCRIPTION :

The operating time (0,5 to 60 s) and the break time (0,5 to 300s) are adjustable with rotary potentiometers. In order to facilitate the setting of short times, the first half of the scale has been extended very much so that the effect of a range selection from 1 to 9 can be obtained by simple means.

Using the inside DIP-FIX-switches each time can be changed separately with a ratio of 1:32, 1:8, 1:1 and 8:1 (Operating time 480s, 60s, 7,5s, 1,9s, break time 2400s, 300s, 37s, 9s). You can choose if the impulser should start with the operating or the break time. The second impulser (Type TG2-BC) can be operated at the same or contrary pulse to the first impulser.

The Impulser is deliverable as built-on implement type TG-BC (fitting for bearing rail 35 DIN EN 50022), as instrument for panel mounting type TGE-BC (72x48 mm, DIN 43700) and as instrument for projecting mounting with a toggle switch type TGES-BC (continuance - off - impulse) for 230V, 50 Hz or for 12 to 42 V direct or alternating current with the additional ending -UC.

The output relays with one changer each are led to self-removing clamping plates for 2 x 2,5mm<sup>2</sup> braid or cable. The cover of the clamping is according VBG4 and VDE 0106 part 100.

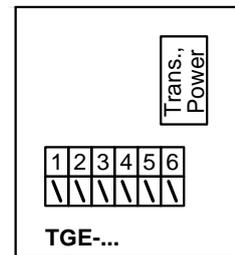
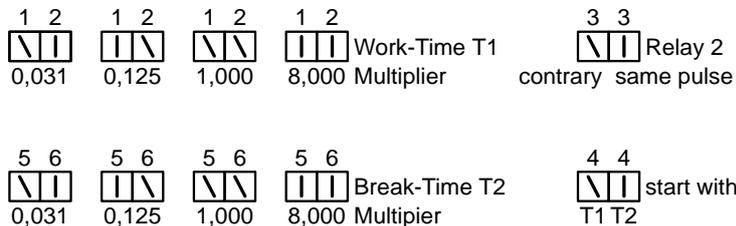
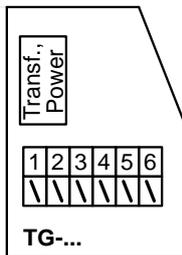
### SPECIAL DESIGNS :

The Impulser can also be delivered with other voltages and other operating time ranges.

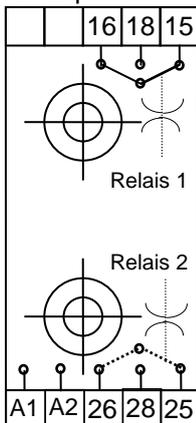
### OPERATING INSTRUCTIONS :

The apparatus is only to be used in conformity with the purpose given by the manufacturer, after having paid special attention to the instructions and in accordance with the technical data given therein. Installation, maintenance, pre-operational and operational as well as post-operational handling of the equipment and the accessories must be carried out by trained and qualified personnel in compliance with the legal prescriptions and safety regulations.

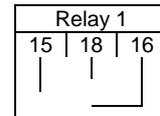
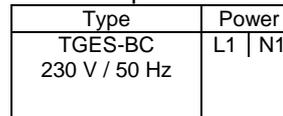
### CODING OF THE DIP-FIX-SWITCHES :



Clamp flat TG...:



Clamp flat TGE-...:



### Technical data :

Type	TG-BC	TG-BC-UC	TGE-BC	TGE-BC-UC	TGES-BC	TGES-BC-UC	
Voltage	V, Hz	230,50	12-42 UC	230,50	12-42 UC	230,50	12-42 UC
Weight	gram	320	235	450	335	395	315
Measurements	B x H x L	45 x 77 x 123		95 x 47 x 145			
Times	s	Operating time 0,5-60, Break time 0,5-300 (multiplied by factor according to the coding)					
Contact		1 Changer 8A at 230V,50Hz (Type TG2-BC 2 changer)					
Reversion time		approx. 50 ms					
Repetition accuracy		approx. 0,1 s					
Operation temperature		0 to 70 degree C					
Operating position		arbitrary					
Safety provisions		terminals in covering: IP 20, in case: IP 50					
Consumption		1,5 VA / 1,5 W					