

Impulse group switch for  
central control  
EGS12Z-8..230V UC



**Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!**

Temperature at mounting location:  
-20°C up to +50°C.  
Storage temperature: -25°C up to +70°C.  
Relative humidity:  
annual average value <75%.

1+1 NO contacts not potential free  
16A/250V AC, for 1 motor or motor  
relays.  
Standby loss 0,05-0.4 watt only.  
Modular device for DIN 60715 TH35 rail  
mounting.  
1 module = 18mm wide, 58mm deep.

This impulse group switch serves to  
implement commands generated by the  
sensor relays or by switches and push-  
buttons and controls a motor, a motor  
isolating relay MTR12-8..230V UC or a  
DC motor relay DCM12-8..230V UC  
dependent on the setting of the rotary  
switch on the front.

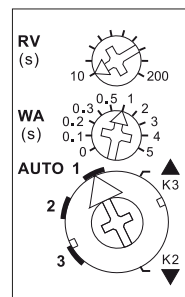
8 to 230V UC supply voltage and switch-  
ing voltage at terminals +B1/-A2. The  
control voltage at terminals A3 up to A8  
must have an identical potential.

**The function** of this electronic group  
impulse switch is based on the principle  
that, on the one hand, impulse control is  
used to accomplish UP-Stop DOWN-  
Stop (contact 1 closed - both contacts  
open - contact 2 closed - both contacts  
open) and, on the other hand, additional  
control inputs can be employed to select  
'UP' or 'DOWN' as desired. **Dynamic**  
refers to control inputs for which one  
impulse of not less than 20 milli-  
seconds is sufficient to close a contact.

**Static** denotes a control input for which  
the contact is only closed as long as the  
control command is applied.

'UP' and 'DOWN' apply to roller shutters,  
Venetian blinds and roller blinds. For aw-  
nings, 'UP' = retract and 'DOWN' = ex-  
tend. For windows 'UP' = open and  
'DOWN' = close.

#### Function rotary switches



**AUTO 1** = In this position of the lower  
rotary switch the local **advanced automa-  
tic reversing system for Venetian blinds  
is activated**. When a push-button connec-  
ted to A3+ A4 (connected with a bridge)  
or A5/A6 connected to a dual push-button  
are used for local control a double im-  
pulse activates a slow rotation in the  
opposite direction, which can be stopped  
with a further impulse.

**AUTO 2** = In this position of the lower  
rotary switch the local advanced automa-  
tic reversing system for Venetian blinds is  
completely switched off.

**AUTO 3** = In this position of the lower  
rotary switch the local advanced automa-  
tic reversing system for Venetian  
blinds is switched off as well. The cen-  
tral control inputs A5 and A6 though,  
which are dynamic at AUTO 1 and AUTO  
2, **are static at first, thus, allow reversal  
of Venetian blinds by operating  
push-buttons**. Only after  
1 second permanent operation they  
switch to dynamic.

▲▼ = ▲ (UP) and ▼ (DOWN) of the  
lower rotary switch are the positions for  
**manual control**. Manual control has  
priority over all other control comands.

**WA = Automatic reversal** for Venetian  
blinds and awnings is controlled by  
means of the middle rotary switch. 0 =  
OFF, otherwise from 0.1 to 5 seconds ON

with selected reversal time. In this case,  
it is only for 'DOWN' that the sense is rever-  
sed on time-out of the time lag selected  
by means of the top rotary switch, e.g.  
to stretch awnings or set Venetian blinds  
to a defined position.

**RV = The time delay** (delay time RV) is  
set by means of the top rotary switch.  
Whilst, the group impulse switch is in  
the 'UP' or 'DOWN' position the selected  
delay time runs (elapses); at time-out  
the device will change automatically to  
'STOP'. Therefore, the time delay has to  
be chosen at least as long as the sha-  
ding element or roller shutter will need to  
move from one limit position to the  
other. Located behind this rotary switch  
is the LED indication for the delay times  
WA and RV.

**Local control with push-button** connec-  
ted to terminals A3+A4 (to be connected  
with a bridge). Each impulse causes the  
group impulse switch to change its posi-  
tion in the UP-Stop-DOWN-Stop sequence.

**Local control with roller shutter toggle  
switch** connected to terminals A3 and  
A4.

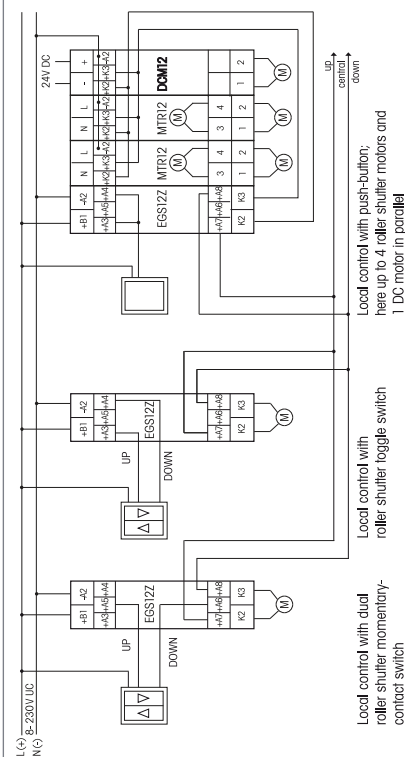
**Local control with dual roller shutter  
push-button** connected to A5 and A6.  
With an impulse by push-button the 'UP'  
or 'DOWN' position is activated. A further  
impulse from one of the two push-but-  
tons stops the sequence immediately.

**Central control dynamic without priority**  
connected to terminals A5 (UP) and A6  
(DOWN). Up or DOWN is activated by a  
control signal. A further control signal  
(<700ms) at this control input inter-  
rupts this process immediately, a further  
control signal (>700ms) continues the  
process. **Without priority** because the  
local input A3+A4 (with bridge) and the  
central control inputs A7 and A8 can  
immediately override even whilst the con-  
trol contact on A5 or A6 is still closed.

**Central control dynamic with priority**  
connected to terminals A7 (UP) and A8  
(DOWN). **With priority** because these  
control inputs cannot be overridden by  
other control inputs **as long as** the cen-  
tral control contact is closed.

Otherwise same function like the central  
control dynamic without priority. These  
central control inputs A7 and A8 are  
used for the sensor relays MSR12 and  
LRW12D for the wind sensor, the frost-  
sensor and the rain-sensor functions as  
these are required to have absolute priority  
over other sensor commands.

#### Typical connection



#### Technical Data

Supply voltage and control voltage AC	8..253 V
Supply voltage and control voltage DC	10..230 V
Control voltages	8..230V UC
Rated switching capacity	16A/250V AC
Inductive load cos $\phi$ = 0.6/230V AC	650 W
Max./Min. temperature at mounting location	+50°C/-20°C
Control current A3-A8 at 12/24/230V $\pm 20\%$	0.05/0.11/0.7 mA
Standby loss (active power) at 12/24/230V	0.05/0.1/0.4 W



The strain relief clamps of the  
terminals must be closed, that  
means the screws must be tigh-  
tened for testing the function of  
the device. The terminals are  
open ex works.

#### For later use!

We recommend the housing for operating  
instructions GBA14.

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