Operating Instructions: EES M3 GPO.

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M3 GPO.
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Operating Instructions.

Operating conditions.
To ensure stable operation of the MIDI setup, the connecting cables should not exceed 10 feet (3 meters) in length.
In rare cases static discharges or interference can prevent the EES M3 GPO from normal operation. If this happens, normal MIDI operation can be restored by switching the M3 GPO power off and on.
By using EES M3 GPO observe the standard precautions for electrical devices: Do not use the device in surroundings that are wet, very humid, hot or very dusty. Only qualified technicians may open the interface.
Clean the case using only a dry cloth. Cleaners containing solvents may damage the case's surface.

Connections.
For operating the M3 GPO needs a DC power supply 9V / > 80mA e.g. the EES NG4.
Power Supply Plug (Phone Plug 3.5mm) :

+9V ⎓
NC
Ground
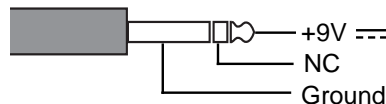
The EES M3 GPO is equipped with one MIDI In jack, two equivalent MIDI Out jacks and one MIDI Thru jack.
The processed MIDI data is routed from MIDI In to the two MIDI Out jacks, the original MIDI In data is routed to the MIDI Thru jack.
For operating connect MIDI Out of the controlling keyboard with MIDI In of the M3 GPO. MIDI Out of the M3 GPO has to be connected with MIDI In of the sound modules.
The M3 GPO relay is equipped with a changeover contact connected to a 6.3mm headphone socket.

Ruhe   passive
Aktiv   active

Contact load: Max. 40V, max. 0,5A.

Function.
The relay contact of the M3 GPO can be switched by MIDI data.
The MIDI data to control the relay is selectable by the 16 position rotary switch on the front of M3 GPO. Some functions (marked in the following tables) only pulses the relay contact, most of them will switch the contact on and off with two correponding MIDI messages, e.g. Note on/off.

MIDI Implementation:
MIDI Out   Unchanged MIDI In data.
MIDI In   See tables.

M3 GPO Tables of Rotary Switch Positions

Switch Position 1
To close contact: MIDI Start
To open contact: MIDI Stop

Switch Position 2
To close contact:	Note 36 / MIDI channel 1 - note on	lowest key C on a 5 octave
To open contact:	Note 36 / MIDI channel 1 - note off	keyboard

Switch Position 3
To close contact:	Note 96 / MIDI channel 10 - note on	lowest key C on a 5 octave
To open contact:	Note 96 / MIDI channel 10 - note off	keyboard

Switch Position 4
To close contact:	Controller 64 / channel 1 - On (127)	Sustain
To open contact:	Controller 64 / channel 1 - Off (0)	

Switch Position 5
To close contact:	Controller 66 / channel 1 - On (127)	Sustenuto
To open contact:	Controller 66 / channel 1 - Off (0)	

Switch Position 6
To close contact:	Controller 80 / channel 10 - On (127)	mostly unused controller
To open contact:	Controller 80 / channel 10 - Off (0)	

Switch Position 7
To close contact:	Controller 91 / channel 16 - On (127)	Reverb
To open contact:	Controller 91 / channel 16 - Off	

Switch Position 8
To close contact:	Controller 93 / channel 16 - On (127)	Chorus
To open contact:	Controller 93 / channel 16 - Off (0)	

Switch Position 9
To close contact:	Programchange 1 / channel 16	Switching by Prgramchange
To open contact:	Programchange 0 / channel 16	

Switch Position 10   Impuls!
Impuls auslösen:	Programchange 0 / channel 16	Pulse ca. 30ms

Switch Position 11   Impuls!
Impuls auslösen:	Programchange 1 / channel 16	Pulse ca. 80ms

Switch Position 12   Impuls!
Impuls auslösen:	Start *oder* Stopp	Pulse ca. 40ms

Switch Position 13   MIDI Machine Control MMC
To close contact: MMC Play (def)
To open contact: MMC Stop

Switch Position 14   MIDI Machine Control MMC
To close contact: MMC Punch In
To open contact: MMC Punch Out

Switch Position 15   Faderstart O2R Fader 1
To close contact: Fader öffnen
To open contact: Fader ganz schließen

Switch Position 16   ProTools Record (CS10)
To close contact: Rec On
To open contact: Rec Off