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the power to control

Fleischmann
unitro[®]
STÖRMELDESYSTEME

Flashing alarm annunciator units with signal storage FSB 08/16-48 -P USB

programmable via USB, for front panel installation, 8 - 48 signal inputs

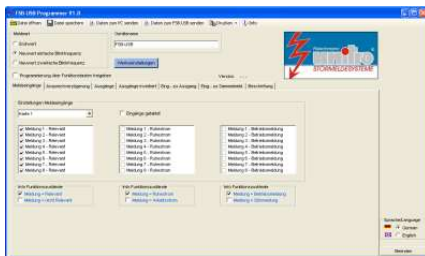
Type designation:

FSB 16/08 (16) -P USB

flashing alarm annunciator
8 or 16 signal inputs

FSB 48/08 (16/24/32/40/48) -P USB

flashing alarm annunciator
8 to 48 signal inputs
in 8 input steps



Controls and displays

- Bright 5mm LED display
- Separate status indicator (green = Power ON)
- Easily exchangeable label strips
- Integrated functional buttons (+ external) + LED-test

Parameterization

- Rear integrated Mini USB interface for parameterization using Windows 7 Pro or higher
- Quiescent / operating current – for each signal
- Running- / alarm – for each signal
- Assignment of the outputs
- Response delay variable for each signal, max. 10min
- New alert / first alert

Electrical characteristics

- 8 - 48 signal inputs with LED-display red
- Clocked input circuitry to reduce power loss at DC
- Acknowledgeable flash warning
- Integrated mini horn
- EMC-values: UNITRO-Standard in accordance with EN 61000
- Relay output: Change-over contact max. 5A 250V AC, 3A 30V DC

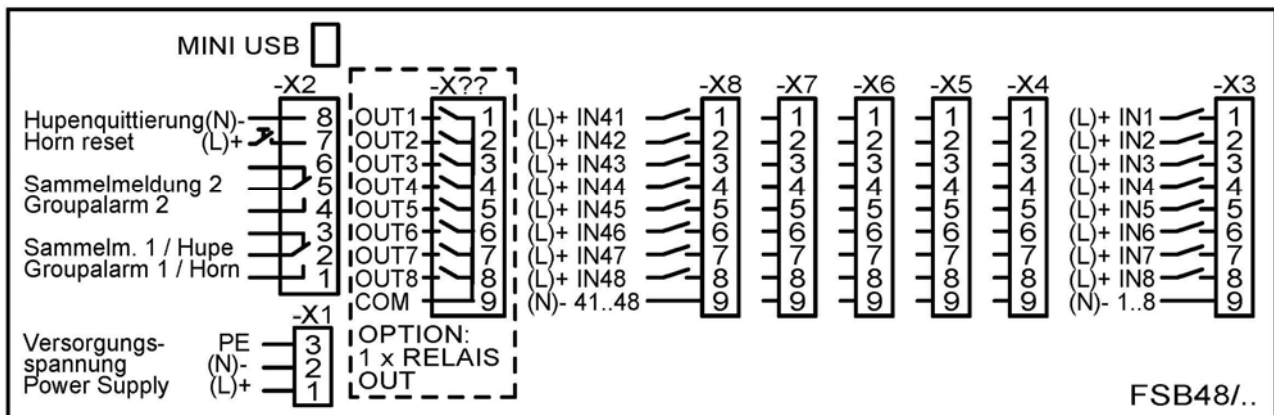
Mechanical characteristics

- Compact plastic junction housing 96 / 192 x 96 x 85 + 25mm. Degree of protection: front IP50
- Connection: Screw-type terminals, plug connection max. 2,5mm²

Option

- 8 Outputs, normally-open contacts with common ground (then max. 40 signal inputs)

Connection diagram FSB 48/...-P USB



Technical data:

- Type of construction:**
control board housing
96 / 192 x 96 x 85 + 25mm
(cutting for installation: 92 / 186 x 92 + 1mm)
- Degree of protection:**
front IP50, rear IP20
(front FSB 08/16 option IP54)
- Weight:**
FSB16 approx. 400g
FSB48 approx. 650g
- Climatically conditions:**
in accordance with UNITRO-Standard
- Connection:**
screw-type terminals/ plug connection
max. 2,5 mm²
- Front panel buttons:**
acknowledge horn
acknowledge flash light
LED test
- External button:**
acknowledge horn (normally open contact)
- Supply voltage:**
24V AC/DC or
48-60V AC/DC or
110/125V AC/DC or
220/240V AC/DC
voltage-adapted
- Max. fuse:**
4A medium slow
- Input level for signal inputs:**

24V AC/DC	± 10% - 15%	max. 4mA
60V DC	± 10% - 15%	max. 2,5mA
110V DC	± 10% - 15%	max. 2,5mA
220V DC	± 10% - 15%	max. 2mA
230V AC	± 10% - 15%	max. 3mA

voltage-adapted
voltage tolerance ±10%
- Minimum signal duration:**
DC: 10ms / AC: 100ms
- Data retention in the absence of power:**
flash memory
- Power loss 100% ED:**
24V AC/DC / 60V DC max. 4,5W
110V DC / 220V DC / 230V AC max. 5,9W
clocked input circuitry
to reduce power loss at DC
- LED display:**
labeled with marking strips
alarm new alert: red flash light
alarm acknowledge: red steady light
alarm removed: LED dark

status LED (power on) = green steady light
- Flashing frequencies:**
alarms 2Hz / 0,5Hz
- Relay outputs:**
1x group alarm and 1x horn contact,
potential-free change-over, max. 250V 5A
option: group alarm, 8 outputs normally-open
with common ground, max. 250V 5A
- Parameterization:**
via rear **Mini USB interface**
per input: running- / alarm
quiescence- / operation current
switch on delay max. 10min
assignment of the output contacts
overall: first up / new alert
- Leakage distances and clearances:**
in accordance with UNITRO-Standard
- EMC, immunity of interference:**
UNITRO-Standard,
in accordance with EN 61000



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Combinations FSB-P USB

FSB-P USB	Power supply	Input Card	Option: Output Card									
	<div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>8 / 16 Bay + power supply</p> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td style="padding: 2px;">24V AC/DC ± 10-15%</td></tr> <tr><td style="padding: 2px;">230V AC ± 10-15%</td></tr> <tr><td style="padding: 2px;">48/60V DC ± 10-15%</td></tr> <tr><td style="padding: 2px;">110/125V DC ± 10-15%</td></tr> <tr><td style="padding: 2px;">220V DC ± 10-15%</td></tr> </table> <p style="text-align: center; margin-top: 5px;">+</p> </div> <p style="text-align: center; margin: 10px 0;">or</p> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>8 / 16 / 24 / 32 / 40 / 48 Bay + power supply</p> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td style="padding: 2px;">24V AC/DC ± 10-15%</td></tr> <tr><td style="padding: 2px;">230V AC ± 10-15%</td></tr> <tr><td style="padding: 2px;">48/60V DC ± 10-15%</td></tr> <tr><td style="padding: 2px;">110/125V DC ± 10-15%</td></tr> <tr><td style="padding: 2px;">220V DC ± 10-15%</td></tr> </table> <p style="text-align: center; margin-top: 5px;">+</p> </div>	24V AC/DC ± 10-15%	230V AC ± 10-15%	48/60V DC ± 10-15%	110/125V DC ± 10-15%	220V DC ± 10-15%	24V AC/DC ± 10-15%	230V AC ± 10-15%	48/60V DC ± 10-15%	110/125V DC ± 10-15%	220V DC ± 10-15%	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>8xdigital IN 24V AC/DC ± 10-15%</p> </div> <p style="text-align: center; margin: 5px 0;">and/or</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>8xdigital IN 230V AC ± 10-15%</p> </div> <p style="text-align: center; margin: 5px 0;">and/or</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>8xdigital IN 48/60V DC ± 10-15%</p> </div> <p style="text-align: center; margin: 5px 0;">+</p> <p style="text-align: center; margin: 5px 0;">and/or</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>8xdigital IN 110/125V DC ± 10-15%</p> </div> <p style="text-align: center; margin: 5px 0;">and/or</p> <div style="border: 1px solid black; padding: 5px;"> <p>8xdigital IN 220V DC ± 10-15%</p> </div>
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220V DC ± 10-15%												

FSB-USB Programmer V5.00

Open file Save file Send data to PC Send data to FSB-USB Print Info


Signal subroutine
 First-up signal, single-freq. flashing light
 New-value signal, single-freq. flashing light
 New-value signal, two-freq. flashing light

Device name: FSB-USB

Sprache/Language: German English

Factory settings Enable programming with function keys

Version: ---



Signal inputs Switch-on delay Outputs Outputs inverted Input to output Input to group signal output Labelling LED color

Signal input settings

Card 1

Input 1 - relevant Input 2 - relevant Input 3 - relevant Input 4 - relevant Input 5 - relevant Input 6 - relevant Input 7 - relevant Input 8 - relevant	Input 1 - working current (NO) Input 2 - working current (NO) Input 3 - working current (NO) Input 4 - working current (NO) Input 5 - working current (NO) Input 6 - working current (NO) Input 7 - working current (NO) Input 8 - working current (NO)	Input 1 - fault indication Input 2 - fault indication Input 3 - fault indication Input 4 - fault indication Input 5 - fault indication Input 6 - fault indication Input 7 - fault indication Input 8 - fault indication
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8 inputs relevant (card 1) 8 inputs working current (card 1) 8 inputs fault indication (card 1)

8 inputs not relevant (card 1) 8 inputs closed-circuit current (card 1) 8 inputs operating current (card 1)

Close

Signal inputs Switch-on delay Outputs Outputs inverted **Input to output** Input to group signal output Labelling LED color

Input to output

Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8
Card 1	Card 1	Card 1	Card 1	Card 1	Card 1	Card 1	Card 1
<input checked="" type="checkbox"/> Input 1 <input type="checkbox"/> Input 2 <input type="checkbox"/> Input 3 <input type="checkbox"/> Input 4 <input type="checkbox"/> Input 5 <input type="checkbox"/> Input 6 <input type="checkbox"/> Input 7 <input type="checkbox"/> Input 8	<input type="checkbox"/> Input 1 <input checked="" type="checkbox"/> Input 2 <input type="checkbox"/> Input 3 <input type="checkbox"/> Input 4 <input type="checkbox"/> Input 5 <input type="checkbox"/> Input 6 <input type="checkbox"/> Input 7 <input type="checkbox"/> Input 8	<input type="checkbox"/> Input 1 <input type="checkbox"/> Input 2 <input checked="" type="checkbox"/> Input 3 <input type="checkbox"/> Input 4 <input type="checkbox"/> Input 5 <input type="checkbox"/> Input 6 <input type="checkbox"/> Input 7 <input type="checkbox"/> Input 8	<input type="checkbox"/> Input 1 <input type="checkbox"/> Input 2 <input type="checkbox"/> Input 3 <input checked="" type="checkbox"/> Input 4 <input type="checkbox"/> Input 5 <input type="checkbox"/> Input 6 <input type="checkbox"/> Input 7 <input type="checkbox"/> Input 8	<input type="checkbox"/> Input 1 <input type="checkbox"/> Input 2 <input type="checkbox"/> Input 3 <input type="checkbox"/> Input 4 <input checked="" type="checkbox"/> Input 5 <input type="checkbox"/> Input 6 <input type="checkbox"/> Input 7 <input type="checkbox"/> Input 8	<input type="checkbox"/> Input 1 <input type="checkbox"/> Input 2 <input type="checkbox"/> Input 3 <input type="checkbox"/> Input 4 <input type="checkbox"/> Input 5 <input checked="" type="checkbox"/> Input 6 <input type="checkbox"/> Input 7 <input type="checkbox"/> Input 8	<input type="checkbox"/> Input 1 <input type="checkbox"/> Input 2 <input type="checkbox"/> Input 3 <input type="checkbox"/> Input 4 <input type="checkbox"/> Input 5 <input type="checkbox"/> Input 6 <input checked="" type="checkbox"/> Input 7 <input type="checkbox"/> Input 8	<input type="checkbox"/> Input 1 <input type="checkbox"/> Input 2 <input type="checkbox"/> Input 3 <input type="checkbox"/> Input 4 <input type="checkbox"/> Input 5 <input type="checkbox"/> Input 6 <input type="checkbox"/> Input 7 <input checked="" type="checkbox"/> Input 8

Signal inputs Switch-on delay Outputs Outputs inverted Input to output Input to group signal output **Labelling** LED color

Labelling

Position: Card 6

Signal 41	Signal 45
Font size: 9	Font size: 9
Signal 42	Signal 46
Font size: 9	Font size: 9
Signal 43	Signal 47
Font size: 9	Font size: 9
Signal 44	Signal 48
Font size: 9	Message 48 Font size: 11

Template: FSB 24-48

Printer settings Print

Example 1						
						Message 48