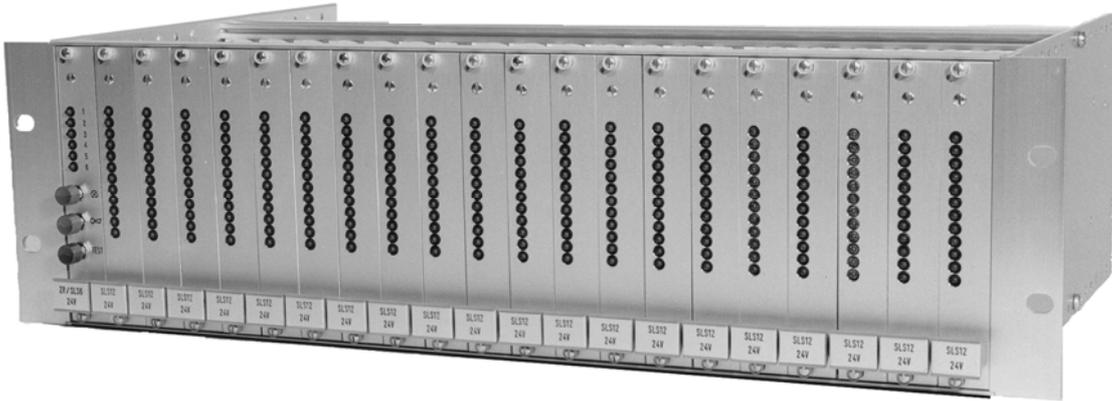




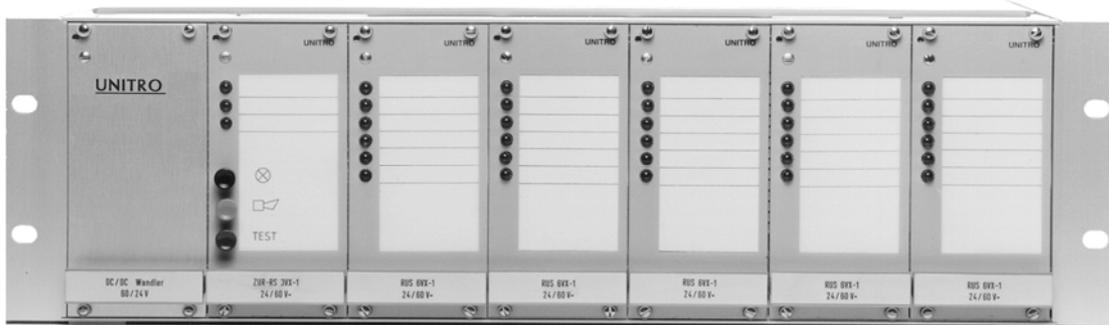
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UNI - CONTROL - Series, annunciator in eurocard format for universal use



Standard version with 4M aluminum front panels

fig. 1



Optionally available with PC-clad front panels

fig. 2

- Compact design using eurocard format 100 x 160mm / 4M installation wide
- Installation of max. 246 signal lines in a 19" rack 84M / 3U
- LED display per signal line
- Current type, polarity and phase control by any input stages with isolation relays
- Acknowledgeable automatic floating horn New-message, with optional automatic shut-off horn
- Adjustable pick-up or drop-out delay
- Multi-function circuit: closed-circuit / operating current changeover, first-up / new-value changeover
- Output isolation of power relay contacts 240V, 3A for lamp output
- Additional floating relay output max. 125V, 1A
- Floating group message output with system monitoring
- EMC-values: Unitro-Standard in accordance with EN 61000

**ZR/RS3 master card with 3 signal lines;
RS6 alarm card with 6 signal lines** (fig.3)

• **Replaced by:**

**ZX3V master card with 3 signal lines, RX6V signal
card with 6 signal lines**

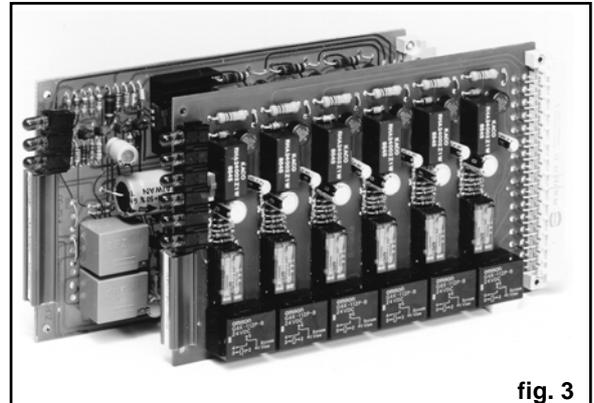


fig. 3

**ZR1/SLS6 master card with 6 signal lines;
SLS12 signal card with 12 signal lines** (fig. 4)

- alarm card with single flashing-light display with reset button according to DIN 19235 4.1.2.1 or 4.1.3.1
- changeover from final to start-up value signal
- master card with flashing-light and horn reset button as well as lamp check button located on front panel
- front-panel LED display for each signal line
- one floating relay output for each signal line for lamp control
- closed-circuit/operating current changeover for each card
- see circuit diagram 51 for wiring layout
- function flow chart
- fig. 100 for new-value signal
- fig. 101 for first-up signal

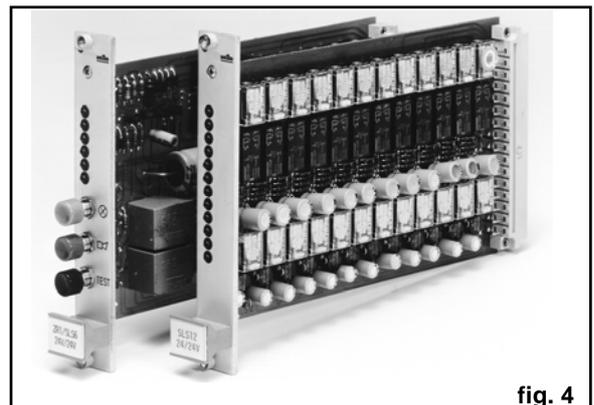


fig. 4

**ZX3V master card with 3 signal lines;
RX6V signal card with 6 signal lines** (fig. 5)

- alarm card with single flashing-light display with reset button according to DIN 19235 4.1.2 or 4.1.3.1
- either manual or automatic acknowledgment by honking variable time step
- mode of operation as for the ZR1/SLS6 alarm combination and SLS12 alarm, but with the following technical additions:
- adjustable response delay for each signal line
- additional floating output (convertible make/break contact) for each signal line, can be coded for 3 functions
 - output remains open until fault is reset (without voltage)
 - output remains open until fault is cancelled and rectified
 - output behaves like lamp output
- closed-circuit/operating current changeover for each signal line
- see circuit diagram 52 for wiring layout
- function flow chart
- fig. 103 for new-value signal
- fig. 104 for first-up signal

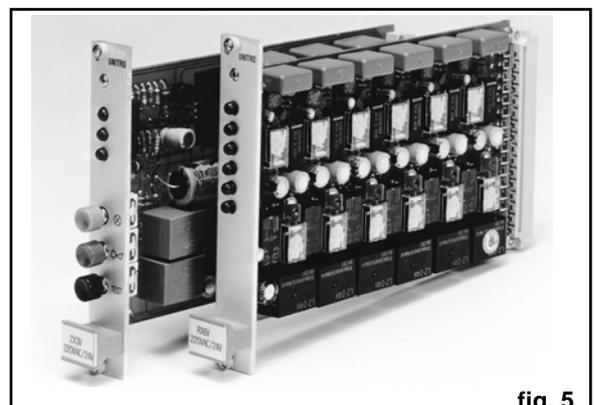


fig. 5



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**ZX2V/2 master card with 2 signal lines;
RX5V/2 signal card with 5 signal lines (fig. 6)**

- alarm card with acknowledgeable double flashing light according to DIN 19235 4.1.2.2
- mode of operation as for the ZX3V and RX6V alarm combination, but with the following technical additions:
- additional floating contacts per signal line as normally open contact with shared access
- each signal line can be assigned separately two acknowledgeable horn outputs
- alarm inputs, each with two separate connection points, that is absolute isolation
- see circuit diagram 53 for wiring layout
- function flow chart
fig. 204 for new-value signal
fig. 205 for first-up signal

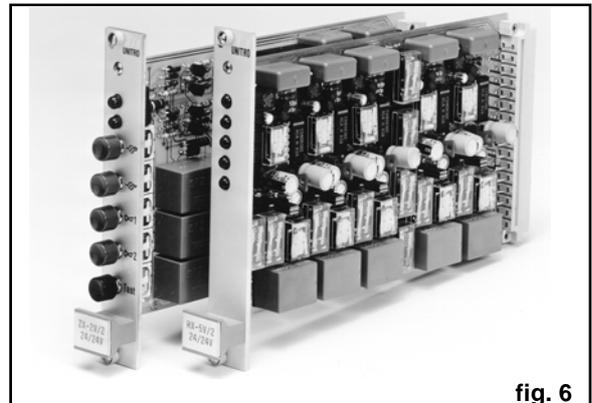


fig. 6

**ZR1 / SLS4-BS master card with 4 signal lines,
SLS8-BS signal card with 8 signal lines (fig. 7)**

- alarm card for combined operation messages and flashing fault messages with acknowledgeable new-value message according to DIN 19235 4.1.4.1
- either manual or automatic acknowledgment
- master card with flashing-light and horn reset button as well as lamp check button located on front panel
- front-panel LED display for each signal line
- one floating relay output for each signal line for lamp control
- closed-circuit/operating current changeover for each card
- function flow chart no. 3

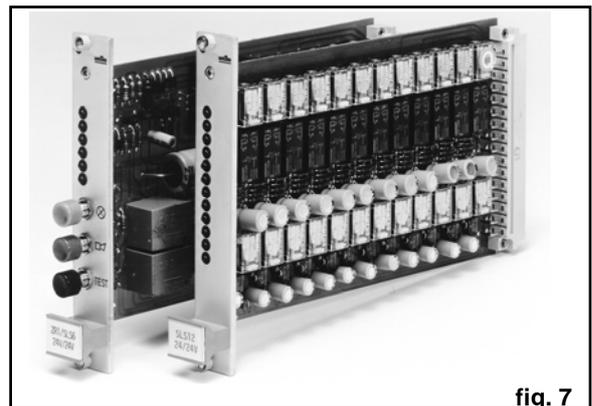


fig. 7

**ZN3V master card signal lines;
SN4V signal card with 4 signal lines (fig. 8)**

- alarm card with single flashing-light display with reset button according to DIN 19235 4.1.2 or 4.1.3.1
- as an option to connect 2-wire NAMUR sensors
- mode of operation as for the ZX3V and RX6V, alarm combination, but with the following technical additions:
- short-circuit and wire break monitoring via separate LED display and common alarm
- red LED display for fault indication
- orange LED display for short-circuit and wire break monitoring
- see circuit diagram 55 for wiring layout
- function flow chart
fig. 107 for new-value signal
fig. 108 for first-up signal

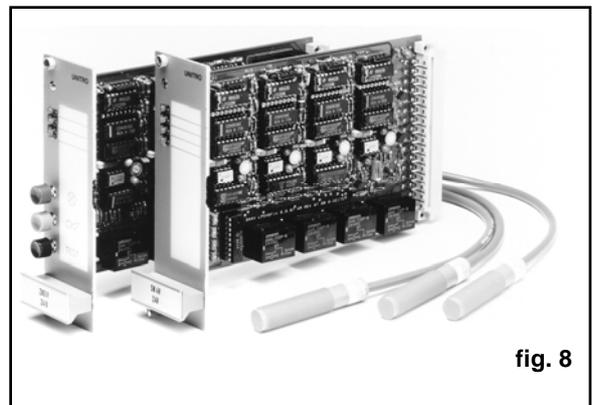


fig. 8

Mechanical characteristics

Type of construction:	plug-in cards in eurocard format 100 x 160mm, min. 4M installation wide
Mounting position:	required, preferably standing in the rack
Connection:	32-pin male multiple connector according to DIN 41612, style D
Leakage distances and clearances:	in accordance with Unitro-Standard
Permissible relative humidity:	in accordance with Unitro-Standard
Permissible ambient temperature:	in accordance with Unitro-Standard
Weight for module including packaging:	approx. 300g

Electrical characteristics

Supply voltage:	from the master card 24VAC \pm 10%) or 24V DC battery DC voltage DC supply (bus wiring)
External fuse:	max. 4A
Internal system voltage:	24V DC
Internal fuse:	on short-circuit protected voltage regulator
Flashing frequencies:	2Hz, 0,5Hz
Outputs:	
- floating acknowledgeable horn output:	max. 220V AC, 3A
- floating group alarm output:	max. 220V AC, 3A
Expandability:	over power supply card to the base block 10 expansion modules at external 24V DC power supply up to 50 expansion modules
Nominal voltage level for signals:	24V AC / DC to 230V AC / DC voltage adjusted
Input trigger threshold:	min. 80% nominal voltage
Response delay:	standard about 5ms (only 24V DC signal voltage possible). with ZX or RX-type adjustable from 5ms to 10s (max 60s)
Minimum signal duration:	10ms
Recovery time for storage of individual messages and the horn output:	max. 10s
First value distinction:	approx. 5ms
Contact load	
- lamp outputs:	250V / 3A
- additional relay outputs:	min. 125V / 1A
Mechanical life the output relay:	10 ⁷ switching cycles
Current consumption per signal input:	input current 7-10mA external power supply
Internal power loss per signal input:	RS6: 0,5VA SLS12: 0,3VA RX6: 0,75VA
EMC, immunity of interference:	Unitro-Standard, in accordance with EN 61000
Other system features:	see data on the individual signal cards