· Acquire, process and display from 8 to 40 alarm signals or status messages
· Configurable signal functions
· Communication-interfaced signaling devices equipped with RS 232 or CAN interface
· Signaling devices with PLC functionality, programmable pursuant to IEC 1131-3
· Control panel mountable
Signalling devices for acquiring and processing alarm signals and status messages

Case
- control panel mountable, sturdy enclosure system pursuant to DIN 43718
- two case depths: 95 mm (standard), 75 mm (Option)

Terminal
- screw-type terminal (standard), push-lock connection with screw-type terminal (optional)

Signal texts
- interchangeable label inserts

Signal display
- dual-colored red/green LED (standard), red/green backlight (optional)

Signal inputs
- opto-decoupled, high interference immunity
- detectable signal pulse length $\geq 5$ ms with DC or $\geq 50$ ms with AC signal voltage

Signal functions
- set by means of switches on back of case
  - first-up signal or new-value signal
  - single or dual flashing light
  - alarm signal (red) or status message (green)
  - manual or automatic (4 sec.) acknowledgement of acoustic signal output
  - working or N/C current starting for each group of 8 signal inputs
    (input groups for devices with 40 messages: 3x 8 and 1x 16 inputs)

Emergency feed
- connection element for 24 VDC feed or external back-up 12 VDC battery for retaining functions during power outage

Operator controls
- 4 internal buttons (lamp test, alarm horn acknowledgement, alarm acknowledgement, delete alarm)
- 4 inputs for external control elements

Acoustic signal generator
- internal alarm horn

Group alarm outputs
- 1 monostable contact assembly (C/O contact) for external acoustic signal generator
- 1 bistable contact assembly (C/O contact) for groups of 8 signal inputs

Alarm signal processing
- 1 monostable contact assembly (N/O contact) per signal input (optional) for all contact assemblies 24 VDC / 3 A to 220 VDC / 0.1 A or 230 VAC / 4 A

Device configurator
- free software for MS Window™ for selecting device variants

Signal voltage
- variant dependant 24 VDC or 48 VDC to 60 VDC or 110 VDC or 220 VDC or 24 VAC or 48 VAC to 60 VAC or 127 VAC or 230 VAC

Supply voltage
- 24 VDC available for all device variants
- variant dependant 24 VAC or 48 VAC to 60 VUC or 110 VUC to 230 VUC:

<table>
<thead>
<tr>
<th>Devices with</th>
<th>8</th>
<th>16</th>
<th>24</th>
<th>40</th>
<th>Signals</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED without relay processing contacts</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>LED with relay processing contacts</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backlight display without relay processing contacts</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backlight display with relay processing contacts</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

as well as 127 VAC or 230 VAC
- LED without relay processing contacts
  - 24 VDC (0.5 A at Vin = 110 V, 1 A at Vin = 230 V)
- LED with relay processing contacts
  - 24 VDC / 0.4 A

Power requirements
- for power voltage LED/backlight
  - 24 VDC (0.5 A at Vin = 110 V, 1 A at Vin = 230 V)

<table>
<thead>
<tr>
<th>Type</th>
<th>Input voltage (V_in)</th>
<th>Output voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>U83 230A</td>
<td>110 VUC to 230 VUC</td>
<td>24 VDC (0.5 A at Vin = 110 V, 1 A at Vin = 230 V)</td>
</tr>
<tr>
<td>U84 60A</td>
<td>48 VAC or 48 VDC to 60 VDC</td>
<td>24 VDC / 0.4 A</td>
</tr>
</tbody>
</table>

External power supply unit
- We recommend using an external power supply unit for connecting all other variants:

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<thead>
<tr>
<th>Type</th>
<th>Input voltage (V_in)</th>
<th>Output voltage</th>
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<tr>
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<td>U84 60A</td>
<td>48 VAC or 48 VDC to 60 VDC</td>
<td>24 VDC / 0.4 A</td>
</tr>
</tbody>
</table>

Input current per signal input: approx. 5 mA
### Basic variants
- supply voltage 24 VDC, fixed screw-type connection

### Options
- supply voltage 48 VUC to 60 VUC or 110 VUC to 230 VUC
- supply voltage 24 VAC or 127 VAC or 230 VAC
- push-lock input and output connectors with screw-type terminals
- 8, 16, 24 or 40 relay N/O contacts for signal processing
- backlight display
- case depth 75 mm, only with 24 VDC power supply and without processing contacts

### Prices
- cf. price-list
Communication-interfaced signaling devices for acquiring and processing alarm signals or status messages

**Case**
- control panel mountable, sturdy enclosure system pursuant to DIN 43718, case depth 95 mm

**Terminal**
- screw-type terminal (standard), push-lock connection with screw-type terminal (optional)

**Signal texts**
- interchangeable label inserts

**Signal display**
- dual-colored red/green LED (standard), red/green backlight (optional)

**Signal inputs**
- opto-decoupled, high interference immunity
- detectable signal pulse length ≥ 5 ms with DC or ≥ 50 ms with AC signal voltage, programmable in steps of 5 ms with software

**Event storage**
- buffered event memory for 1000 entries with time mark resolution 1 ms

**Signal functions**
- configurable by means of modular configuration and parameter definition software under Window™ 95/98/NT:
  - first-up signal or new-value signal
  - single or dual flashing light
  - alarm signal (red) or status message (green)
  - manual or automatic (programmable from 0 sec. to 3600 sec.) acknowledgement of acoustic signal output
  - working or N/C current starting for each signal input
  - enhanced alarm functionality, e. g. ISA functions
  - definition of filter times, wobble hold-off, signal input delay etc. for groups of 8 signal inputs
  - monitor supply voltage, alarm generator for power outage

**Emergency feed**
- connection element for 24 VDC feed or external back-up 12 VDC battery for retaining functions during power outage
- monitoring of emergency feed with battery load test configurable

**Operator controls**
- 4 internal buttons (lamp test, alarm horn acknowledgement, alarm acknowledgement, delete alarm)
- 4 inputs for external operator control elements

**Acoustic signal generator**
- internal alarm horn

**Group alarm outputs**
- 2, 4, 6 or 10 (type dependant) configurable relay outputs (C/O contacts), of which
  - all for group alarm signal with random assignment (bistable relays)
  - max. 2 for external acoustic signal generator with random assignment (bistable relay)
  - max. 1 device interference alarm output (monostable relay)

**Alarm signal processing**
- 1 monostable contact assembly (N/O contact) per signal input (optional) for all contact assemblies 24 VDC / 3 A to 220 VDC / 0.1 A or 230 VAC / 4 A

**Serial interface**
- CAN bus or RS 232

**Standard protocol**
- CANopen or 3964R/RK512 or IEC 870-5-101

**Network functions**
- network parameter definition software for CANopen networks under Window™ 95/98/NT
- interconnection and definition of communications parameters in network
- additional network alarm signal functions
- definition of telegram parameters for RS 232 interface

**Device configurator**
- free software for MS Windows™ for selecting device variants

**Signal voltage**
- variant dependant 24 VDC or 48 VDC to 60 VDC or 110 VDC or 220 VDC or 24 VAC or 48 VAC to 60 VAC or 127 VAC or 230 VAC

**Supply voltage**
- 24 VDC available for all device variants
- variant dependant 24 VAC or 48 VAC to 60 VAC or 110 VAC to 230 VAC

**LED without relay processing contacts**
<table>
<thead>
<tr>
<th>Devices with</th>
<th>8</th>
<th>16</th>
<th>24</th>
<th>40</th>
</tr>
</thead>
</table>

**Input current per signal input:** approx. 5 mA

**External power supply unit**
- We recommend using an external power supply unit for connecting all other variants:

<table>
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<tr>
<th>Type</th>
<th>Input voltage (Vin)</th>
<th>Output voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>U83 230A</td>
<td>110 VUC to 230 VUC</td>
<td>24 VDC (0.5 A at V&lt;sub&gt;in&lt;/sub&gt; = 110 V, 1 A at V&lt;sub&gt;in&lt;/sub&gt; = 230 V)</td>
</tr>
<tr>
<td>U84 60A</td>
<td>48 VAC or 48 VDC to 60 VDC</td>
<td>24 VDC / 0.4 A</td>
</tr>
</tbody>
</table>
### Basic variants
- supply voltage 24 VDC, fixed screw-type connection

### Options
- supply voltage 24 VAC or 48 VUC to 60 VUC or 110 VUC to 230 VUC
- push-lock input and output connectors with screw-type terminals
- 8, 16, 24 or 40 relay N/O contacts for signal processing
- backlight display

### Accessories
- CAN bus plug connector with screw-type terminals for 2 bus cables
- data cable for coupling with parameter definition equipment (PC)

### Prices
- cf. price-list

#### Dimensions (w x h in mm):

<table>
<thead>
<tr>
<th>8 alarm signals</th>
<th>16 alarm signals</th>
<th>24 alarm signals</th>
<th>40 alarm signals</th>
</tr>
</thead>
<tbody>
<tr>
<td>96 x 96</td>
<td>144 x 96</td>
<td>192 x 96</td>
<td>288 x 96</td>
</tr>
<tr>
<td>91 x 90</td>
<td>137 x 90</td>
<td>185 x 90</td>
<td>281 x 90</td>
</tr>
<tr>
<td>92 x 92</td>
<td>138 x 92</td>
<td>186 x 92</td>
<td>282 x 92</td>
</tr>
<tr>
<td>bezel</td>
<td>case</td>
<td>panel output</td>
<td></td>
</tr>
</tbody>
</table>

#### Diagrams
- Front view
- Back view
- Device configurator
- Parameter definition software
ME30 infobox control

Communication-interfaced signaling devices equipped with PLC functionality for acquiring and processing alarm signals or status messages

**Case**
- control panel mountable, sturdy enclosure system pursuant to DIN 43718
- case depth: 64 mm; overall mounting depth incl. connectors: approx. 112 mm

**Terminal**
- push-lock connection with screw-type terminal

**Signal texts**
- interchangeable label inserts

**Signal display**
- dual-colored LED for alarm signals (red) and status messages (green)

**Signal inputs**
- opto-decoupled, high interference immunity
- detectable signal pulse length ≥ 1 ms with DC or ≥ 25 ms with AC signal voltage programmable from 1 ms with software

**Event storage**
- buffered event memory for 1000 entries with time mark resolution 1 ms

**Signal functions**
- configurable by means of modular configuration and parameter definition software under Window™ 95/98/NT:
  - first-up signal or new-value signal
  - single or dual flashing light
  - alarm signal (red) or status message (green)
  - manual or automatic (programmable from 0 sec. to 3600 sec.) acknowledgement of acoustic signal output
  - working or N/C current starting for each signal input
  - enhanced alarm functionality, e.g. ISA functions
  - definition of filter times, wobble hold-off, signal input delay
  - monitor supply voltage, alarm generator for power outage

**Emergency feed**
- connection element external back-up 6 VDC battery

**Operator controls**
- 4 internal buttons (lamp test, alarm horn acknowledgement, alarm acknowledgement, delete alarm)
- button effectiveness configurable for one or all networked devices by means of software
- 1 button effectiveness configurable for one or all networked devices by means of software
- supply voltage output with monitor, e.g. as button voltage for signal and acknowledgement input

**Acoustic signal generator**
- internal alarm horn

**Group alarm outputs**
- 1 monostable relay output (N/O contact) for external acoustic signal generator
- 1 monostable relay output (C/O contact) as an alarm contact
- 4 bistable relay outputs (N/O contacts) random signal clustering, software-configurable

**Alarm signal processing**
- ME30 telmatic in- and output modules for alarm signal processing (relay modules) or for additional signal or acknowledgement inputs (digital input modules) pluggable via I/O bus

**Serial interface**
- CAN bus for networking several devices and for communicating with other devices from the ME30 product group, e.g. ME30 telmatic, ME30 infoview
- RS 232 (optional) for configuration and parameter definition by means of modular PC software
- I/O bus terminal for ME30 telmatic input/output module

**Standard protocol**
- CANopen and optional 3964R/RK512 or IEC 870-5-101

**Network functions**
- network parameter definition software for CANopen networks under Windows™ 95 / 98 / NT
- interconnection and definition of communications parameters in network
- additional network alarm signal functions
- definition of telegram parameters for RS 232 interface

**SPC functions**
- SPC programming software pursuant to IEC 113-3 under MS Windows™ 95/98/NT
- 5 language forms (logic diagram, statement list, ladder diagram, structured text, flowchart)

**Signal voltage**
- variant dependant 24 VDC or 48 VDC to 60 VDC or 110 VUC/127 VUC or 220 VUC/230 VUC

**Supply voltage**
- variant dependant 24 VDC or 48 VDC to 60 VDC or 110 VUC/127 VUC or 220 VUC/230 VUC

**Power requirements**
- for supply voltage approx. 20 Watts
- input current per signal input: approx. 5 mA
16 alarm signals

Dimensions (w x h in mm):
- bezel: 144 x 144
- case: 137 x 136
- panel cutout: 138 x 138

Basic variants
- with CAN bus terminal

Options
- with RS 232 interface

Accessories
- CAN bus plug connector with screw-type terminals for 2 bus cables
- connector kit for terminating process signals
- data cable for coupling with parameter definition equipment (PC)

Prices
- cf. price-list

Parameter definition software

PLC programming software
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or call us: +49 (0) 20 53 - 13 432

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