## PRODUCT OVERVIEW

## Elifo




## ELKO EP

ELKO EP have been your partner in the field for 30 years, developing and manufacturing the highest quality Electronic devices for Electroinstallation as well as Smart System for Residential and Building automation.

ELKO EP employs more than 330 people across 15 foreign branches and exports its products to more than seventy countries. Company of the Year, Visionary of the Year, Superbrands and Global Exporter of the Year are just some of the awards we have received throughout the years as we consistently strive to move forward in the field of innovation and development.

Millions of relays, thousands of smart homes, hundreds of buildings and many satisfied customers - This is ELKO EP; a traditional company based in the center of Europe, where own development, production, logistics, and service are at the forefront of our focus.

## Facts and stats


$30 \%$

Czech
export
30 \%
branches

employees in holding
$30000+$
iNELS installations
$30000000+$
manufactured products


R\&D MANUFACTURER
continuosly
fully automated
innovative
complete proces

SUPPORT
$24 / 7 / 365$

World leader in DIN rail relays production


4byble

## 1）wide $y=0$ <br> yemetioll

Timers／Relays www．elkoep．com／relays Time relays，auxiliary relays，installation contactors，memory and bistable relays，staircase switches，time switches，twilight and light switches，dimmers and light intensity controllers，power supplies and bell transformers，controlling and signalling devices．

Monitoring／Protection relays
www．elkoep．com／monitoring
Votage relays 1 －phase and 3 －phase（undervoltage，overvoltage，phase failure，phase asymmetry and phase sequence）， current relays，liquid level relays，thermostats，voltage indicator，power factor and frequency monitoring relays．

## シחテレ

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Smart kits elkoep．com／smart－kits Smart Kits are pre－packaged sets of our most popular wireless control devices from the iNELS Wireless product range．The devices in the setan and

## シחニー ※



Wired electro－instalation iNELS
www．elkoep．com／wired
The sensors and actuators，together with the central unit，which is the heart of the system，communicate via a 2 －wires and enable the built up a larger installation for family houses，villas，hotels and buildings．Individual functions of elements are
parameterized in iDM SW，so simple and more complex actions can be set．

Hospitality Hotel（GRMS）www．elkoep．com／hospitality Guest Room Management System－is a comprehensive solution designed primarily for new hotels，questhouses or wellness
and is based on the iNELS BUS system．In the room，it resolves the control of lighting，access，temperature control and audio／ and is based on the iNELS BUS system．In the room，it tresolves the control of lighting，access，temperature control and audio／ video distribution．It features glass panels with touch buttons that can be combined in various ways（numbers，shape，and
colours）and customized（description，logo）．

## Integration

www．elkoep．com／building
The new IP infrastructure and MQTT protocol enables the connection of iNELS central units for third－party integration and devices that can be connected using the open Home Assistant platform．This help in connection to other protocols that the technology brings in the building（Modbus，Bacnet，KNX，etc．）．

## 



Switches and sockets
www．elkoep．com／logus90
Switches，sockets and a complete range of devices and accessories－this is the Logus90 series from the Portuguese manufacturer Efapel．This range is complemented by both standard plastic frames and luxury frames made of purely natural materials：real wood，metal，granite or tempered glass．Be exceptional！

interior

key fob


METALLO
in LOGUS ${ }^{90}$ design

base


## Elneo <br> (c)Quick verview of time relays




|  |  |  |  |  | asymmetric flasher potentiomerna potentiometers |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Technical parameters | CRM-181J | CRM-183J | CRM-2T | CRM-2H | CRM-2HE | SJR-2 |
| Output | $1 \times \mathrm{CO}, 16 \mathrm{~A}$ | $3 \times \mathrm{CO}, 8 \mathrm{~A}$ | $2 \times \mathrm{CO}, 16 \mathrm{~A}$ | $1 \times \mathrm{CO}, 16 \mathrm{~A}$ | $1 \times \mathrm{CO}, 16 \mathrm{~A}$ | $2 \times \mathrm{CO}, 16 \mathrm{~A}$ |
| Housing | 1-Module |  |  |  |  |  |
| Supply voltage (frequency) | AC/DC $12-240 \mathrm{~V}$ $(\mathrm{AC} 50-60 \mathrm{~Hz})$ | AC/DC 12-240V (AC $50-60 \mathrm{~Hz}$ ) | AC/DC 12-240 V or AC 230 V (AC $50-60 \mathrm{~Hz}$ ) | AC/DC $12-240 \mathrm{~V}$ or AC 230 V (AC $50-60 \mathrm{~Hz}$ ) | AC/DC 1-240V (AC 50-60 Hz) | AC/DC $12-240 \mathrm{~V}$ or AC 230 V (AC $50-60 \mathrm{~Hz}$ ) |
| Time range |  |  |  |  | 0.15-100 days (10 ranges) | $0.15-10$ days (10 ranges) |
| Dimensions | $90 \times 17.6 \times 64 \mathrm{~mm}\left(3.5^{\prime \prime} \times 0.7^{\prime \prime} \times 2.5\right)$ |  |  |  |  |  |
|  | ZR: ON DELAY CRM-181J/UNIZR: 8038 ZN: INTERVAL ON CRM-181J/UNIZN: 8039 BL: FLASHER - ON first CRM-181J/UNI BL: 8040 OD: OFF DELAY CRM-181J/UNIOD: 8041 | CRM-183J/UNI ZR: 8061 CRM-183J/UNIZN: 8060 CRM-183J/UNIBL: 8058 CRM-183J/UNIOD: 8059 | CRM-2T/UNI: 7669 <br> CRM-2T/230V: 838 <br> Time t1 $\mathbf{\lambda}$ (star) <br> 0.1 s do 100 days <br> Time t2 (delay) $\boldsymbol{\lambda} / \mathbf{\Delta}$ <br> $0.1 \mathrm{~s}-1 \mathrm{~s}$. | CRM-2H/UNI: 7668 CRM-2H/230V: 8395 Asymmetric flasher with independently adjustopening time 2 time function <br> - asymmetric flasher <br> ON first <br> asymmetric flasher | CRM-2HE/UNI: 8144 <br> Asymmetric flasher with possibility of time contro with external potentiometers. <br> 2 time functions: <br> asymmetric flasher <br> - ON first <br> - asymmetric flasher <br> - OFF first. | SJR-2/UNI: 7670 SJR-2/230V: 8396 It is used for gradual (cascade) switching $2 \times$ independent ON DELAY outputs. Time adjustable from 0.1 s to 100 days. |
| TIME RELAYS multifunction, PLUG-IN |  |  |  |  |  |  |


|  | multifunction, $2 x$ output contacts (2nd contact mode selection) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11-pin octal socket |  |  | multifunction, $2 x$ output contacts (2nd contact mode selection) |  | multifunction, $2 x$ output contacts (2nd contact mode selection) |  |
| Technical parameters | PTRM-216TP | PTRM-216KP | PTRM-216T | PTRM-216K | PTRA-216T | PTRA-216K |
| Fine time setting | rotary potentiometer | knob | rotary potentiometer | knob | rotary potentiometer | knob |
| Output | $2 \times \mathrm{CO}, 16 \mathrm{~A}$ |  |  |  |  |  |
| Housing | PLUG-IN, into 11-pin octal socket |  |  |  |  |  |
| Control input | line voltage trigger |  | control switch trigger |  | 3 control inputs (START, INHIIT, RESET) |  |
| Supply voltage (frequency) | AC/DC 12-240V ( $50-60 \mathrm{~Hz}$ ) |  |  |  |  |  |
| Time range | 50 ms - 30 days (10 ranges) |  |  |  |  |  |
| Number of functions | 10 |  |  |  |  |  |
| Dimensions | $\begin{aligned} & 48 \times 48 \times 7 \mathrm{~mm} \\ & \left(1.9^{4} \times 1.9^{9} \times 3.1\right)^{4} \end{aligned}$ | $\begin{aligned} & 48 \times 48 \times 89 \mathrm{~mm} \\ & \left(1.9^{\prime} \times 1.9^{\prime} \times 3.5\right) \end{aligned}$ | $\begin{aligned} & 48 \times 48 \times 79 \mathrm{~mm} \\ & \left(1.9^{*} \times 1.9^{\prime} \times 3.1^{\prime}\right. \end{aligned}$ | $\begin{aligned} & 48 \times 48 \times 89 \mathrm{~mm} \\ & \left(1.9^{4} \times 1.9^{*} \times 3.5\right) \end{aligned}$ | $\begin{aligned} & 48 \times 4 \times 79 \mathrm{~mm} \\ & \left(1.9^{4} \times 1.9^{9} \times 3.1\right)^{4} \end{aligned}$ | $\begin{aligned} & 48 \times 48 \times 89 \mathrm{~mm} \\ & \left(1.9^{4} \times 1.9^{*} \times 3.5\right) \end{aligned}$ |
| Order code | 7938 | 7861 | 7938 | 7557 | 7560 | 7559 |
|  | All functions initiated by the supply voltage, except for the flasher function, can use the control input to inhibit the delay (pause). |  | Three control inputs - START, INHIBIT, RESET. All functions start with triggering of control input START. |  | All functions initiated by the supply voltage, except for the flasher function, can use the control input to inhibit the delay (pause). |  |
|  |  |  |  |  |  |  |





| Technical parameters | ATS-1DR | ATS-2D | ATS-2DR | ATS-2WR |
| :---: | :---: | :---: | :---: | :---: |
| Program |  | daily |  | weekly |
| Power backup | yes (max. 100 hrs ) | no | yes (max. 150 hrs ) | yes (max. 150 hrs ) |
| Minimum switching interval | 15 min | 30 min | 30 min | 3.5 hrs |
| Output | $1 \times \mathrm{NO}, 16 \mathrm{~A}$ |  | $1 \times \mathrm{CO}, 16 \mathrm{~A}$ |  |
| Housing | 1 1-Module |  | 2-Module |  |
| Supply voltage (frequency) | AC $230 \mathrm{~V}(50 / 60 \mathrm{~Hz})$ | AC 230 V (50/60 Hz) | AC 230 V (50/60 Hz) | AC 230 V ( $50 / 60 \mathrm{~Hz}$ ) |
| Dimensions | $90 \times 17.6 \times 64 \mathrm{~mm}$ |  | $90 \times 35 \times 60 \mathrm{~mm}$ |  |
| Order code | 8217 | 8212 | 8218 | 8214 |

A simple and inexpen sive alternative to dioital switches for controlling real-time heating, ventilation, cooling, lighting or pumps.
With daily or weekly program. Selection of operating modes. With dialy ar weeekly program. Selvection of of operating omodes.
Sealable traning


## INSTALLATION CONTACTORS

| Technical parameters | vs120 | vs220 | VS425 | vs440 | vS463 | vs420 | VSM220 | VSM425 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Max. load capacity | 20 A | 20 A | 25 A | 40 A | 63 A | 20 A | 20 A | 25 A |
| Number of poles | 1 | 2 | 4 | 4 | 4 | 4 | 2 | 4 |
| Contact configuration (NO/NC) | 10,01 | 20, 11, 02 | 40, 31, 22, 04 | 40, 31, 22,04 | 40,31, 22 | 40,31 | 20, 11, 02 | 40, 31, 22, 04 |
| Coil supply voltage (frequency) | $\begin{gathered} \mathrm{AC} / \mathrm{DC} 24 \mathrm{~V}, \\ 230 \mathrm{~V}, \\ (\mathrm{AC} 50 / 60 \mathrm{~Hz}) \end{gathered}$ | AC/DC $24 \mathrm{~V}, 48 \mathrm{~V}$ $110 \mathrm{~V}, 230 \mathrm{~V}$ (AC $50 / 60 \mathrm{~Hz}$ ) | AC/DC $24 \mathrm{~V}, 48 \mathrm{~V}$ $110 \mathrm{~V}, 230 \mathrm{~V}$ (AC $50 / 60 \mathrm{~Hz}$ ) | AC/DC 24 V , $110 \mathrm{~V}, 230 \mathrm{~V}$ (AC 50/60 Hz) | AC/DC $24 \mathrm{~V}, 48 \mathrm{~V}$, $110 \mathrm{~V}, 230 \mathrm{~V}$ (AC $50 / 60 \mathrm{~Hz}$ ) | $\begin{aligned} & \mathrm{AC} 12 \mathrm{~V}, 24 \mathrm{~V}, 48 \mathrm{~V}, \\ & 110 \mathrm{~V}, 23 \mathrm{~V}, \\ & (50 / 60 \mathrm{~Hz}) \end{aligned}$ | $\begin{aligned} & \mathrm{AC} 12 \mathrm{~V}, 24 \mathrm{~V}, \\ & 110 \mathrm{~V}, 230 \mathrm{~V} \\ & (50 / 60 \mathrm{~Hz}) \end{aligned}$ | AC $12 \mathrm{~V}, 24 \mathrm{~V}$, $42 \mathrm{~V}, 230 \mathrm{~V}$ ( $50 / 60 \mathrm{~Hz}$ ) |
| Dimensions | $17.5 \times 85 \times 60 \mathrm{~mm}$ |  | $35 \times 85 \times 60 \mathrm{~mm}$ | $53.3 \times 84 \times 60 \mathrm{~mm}$ |  | $35 \times 62.5 \times 57 \mathrm{~mm}$ | $17.5 \times 85 \times 60 \mathrm{~mm}$ | $35 \times 85 \times 60 \mathrm{~mm}$ |
|  | These contactors are characterized by soft-switching operation, with DC coil and rectifier, what ensures a quiet operation and running <br> Used to switch electrical circuits, in particular resistive loads and three-phase asynchronous motors. <br>  |  |  |  |  |  | Like VS, but moreover slide switch allowing manual control 1-AUTOOFF. |  |



request
It is posible to connect auxiliary co
Instalation on DIN rail or on panel.


TWILIGHT SWITCHES


## 14

POWER SUPPLIES switching DC
DIMMERS on DIN rail





Operating temperature -20 to $+55^{\circ} \mathrm{C}$ ．

Example of combinations


USS－01＋US5－03

uss－13＋Us5－10


USS－12＋USS－11


USS－11＋USS－01


Types of controlling and signaling units



PROTECTION RELAYS

Voltage monitoring relays－overview

|  |  |  |  | Features |  |  |  |  | Phase |  |  | Setting |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Type | $\begin{aligned} & \frac{5}{5} \\ & \hline 0 \end{aligned}$ |  | $\stackrel{*}{0}$ | $\begin{aligned} & \text { 免 } \\ & \frac{20}{2} \end{aligned}$ |  | $\cdots$ | v | av | $\frac{\stackrel{y y}{\underline{3}}}{\overline{\text { In }}}$ |  | 言 | $\frac{\text { 合 }}{}$ |  |  | $\begin{aligned} & \stackrel{\rightharpoonup}{0} \\ & \stackrel{\rightharpoonup}{\omega} \\ & \stackrel{y}{2} \end{aligned}$ |  |
| HRN－31 <br> HRN－31／2 | ${ }^{1-M}$ | $\begin{gathered} \text { monitored } \\ \text { voltage } \end{gathered}$ | $\times$ | 1 | AC 48－276V | － | － | － | $\times$ | $\times$ | $\times$ | － | $\times$ | － | － | All types have 9 functions in total．The delay is adjustable from $0-10$ seconds（to eliminate short－term outages or peaks）． The lower voltage level（Umin）is set in \％of the upper leve （Umax）． |
| HRN－32／2 | ${ }^{1-M}$ | $\begin{gathered} \text { monitiored } \\ \text { voltage } \end{gathered}$ |  | 1 | AC 48－276V | － | － | － | $\times$ | $\times$ | $\times$ | － | $\times$ | － | － |  |
| $\begin{gathered} \text { HRN-36 } \\ \text { HRN } 36 / 2 \end{gathered}$ | ${ }^{1-M}$ | monitored voltage |  | 1 | DC6－30V |  | － | － | $\times$ | $\times$ | ＊ | － | $\times$ | － | － | HRN－3x，PMR1－3x： 1 x output contact HRN－3x／2，PMR1－3x／2： $2 x$ output contact <br> Old types replacement： <br> HRN－33＞HRN－31 <br> HRN－34＞HRN－36 <br> HRN－35＞HRN－32／2 HRN－37 $>$ HRN－39 <br> HRN－32／2：separated output contact for overvoltage and undervoltage |
| $\begin{array}{\|l\|l\|} \text { HRN-39 } \\ \text { HRN-39/2 } \end{array}$ | ${ }^{1-M}$ | $\begin{gathered} \substack{\text { monitiored } \\ \text { voltage }} \end{gathered}$ | x | 1 | AC 24－150V | － | － | － | $\times$ | $\times$ | $\times$ | － | $\times$ | － | － |  |
| $\begin{aligned} & \text { PNR1-31 } \\ & \text { PMRR-31/2 } \end{aligned}$ | 8．PN | $\begin{aligned} & \text { monitored } \\ & \text { voltaqe } \end{aligned}$ |  | 1 | AC 48－276V | － | － | － | $\times$ | $\times$ | $\times$ | － | $\times$ | － | － |  |
| $\begin{aligned} & \text { PMR1-36 } \\ & \text { PMR1-36/2 } \end{aligned}$ | 8．Pin | $\begin{aligned} & \text { monitored } \\ & \text { voltage } \end{aligned}$ |  | 1 | DC 6－30V | － | － | － | $\times$ | $\times$ | $\times$ | － | $\times$ | － | － |  |
| $\begin{aligned} & \text { PMR1-399 } \\ & \text { PMR1-3/2 } \end{aligned}$ | 8．PIN | $\begin{gathered} \text { monitored } \\ \text { voltage } \end{gathered}$ |  | 1 | AC 24－150V | － | － | － | $\times$ | $\times$ | $\times$ | － | $\times$ | － | － |  |
| $\begin{aligned} & \text { HRN-41/UN } \\ & \text { HRN-41/400 } \end{aligned}$ | 3－M | $\begin{aligned} & \mathrm{AClDC} \mathrm{C} \\ & \text { an-240V } \\ & \mathrm{CC} 400 \mathrm{~V} \end{aligned}$ | － | 1 | $\begin{aligned} & \text { AC/DC 50V } \\ & \text { AC/DC } 160 \mathrm{~V} \\ & \text { AC/DC 500V } \end{aligned}$ | x | $\times$ | － | $\times$ | $\times$ | $\times$ | － | $\times$ | － | － | Second relay function（independent or parallel） Galvanically separated power supply from measuring inputs． HRN－41：lower level for undervoltage（Umin）is set in \％from the set upper level（Umax） HRN－42：lower level for undervoltage（Umin）is set in \％of the nominal value of the selected input，as for the upper level（Umax） |
| HRN－42／UNI HRN－42／400 V | 3－M |  | － | 1 | $\begin{aligned} & \text { AC/DC } 50 \mathrm{~V} \\ & \text { ACDD } 160 \mathrm{~V} \\ & \text { AC/DC } 500 \mathrm{~V} \end{aligned}$ | ＊ | $\times$ | － | $\times$ | $\times$ | $\times$ | － | $\times$ | － | － |  |
| HRN－55 | ${ }^{1-M}$ | $\begin{gathered} \text { monitiored } \\ \text { voltage } \end{gathered}$ |  | 3 | AC 3 $300-500 \mathrm{~V}$ | $\times$ | $\times$ | $\stackrel{\bullet}{\text {（fred）}}$ | － | － | $\times$ | － | $\times$ | $\times$ | $\times$ | Power supply from all phases，i．e．the relay function is pre－ served even if one phase fails． |
| HRN－55N | ${ }^{1-m}$ | $\begin{aligned} & \text { monitored } \\ & \text { voltage } \end{aligned}$ |  | 3 | AC $3 \times 172-287 \mathrm{~V}$ | $\times$ | $\times$ | （fixed） | － | － | $\times$ | － | $\times$ | $\times$ | $\times$ | Power supply L1－N，i．e．the relay also monitors the neutral wire interruption． |
| HRN－57 | ${ }^{1-M}$ | $\begin{aligned} & \text { monitored } \\ & \text { voltage } \end{aligned}$ | ＊ | 3 | AC3x $300-500 \mathrm{~V}$ | $\times$ | $\times$ | － | － | $\times$ | $\times$ | － | $\times$ | $\times$ | $\times$ | Power supply from all phases，i．e．the relay function is pre－ served even if one phase fails． |
| HRN－57N | ${ }^{1-M}$ | $\begin{gathered} \text { monitiored } \\ \text { voltage } \end{gathered}$ | $\times$ | 3 | AC $3 \times 172-287 \mathrm{~V}$ | $\times$ | $\times$ | － | － | $\times$ | $\times$ | － | $\times$ | $\times$ | $\times$ | Power supply L1－N，i．e．the relay also monitors the neutral wire interruption，replacement for HRN－52． |
| HRN－54 | ${ }^{1-M}$ | $\begin{aligned} & \text { monitored } \\ & \text { voltage } \end{aligned}$ | x | 3 | AC $3 \times 300-500 \mathrm{~V}$ | $\times$ | $\times$ | － | － | － | $\times$ | － | $\times$ | $\times$ | $\times$ | If the supply voltage falls below $60 \%$ of Un（OFF lower level）， the relay will immediately disconnects with no delay． Power supply from all phases，i．e．the preserved even if one phase fails． |
| HRN－S4N | ${ }^{1-M}$ | ${ }_{\text {cone }}^{\substack{\text { monitored } \\ \text { voltage }}}$ | $\times$ | 3 | AC 3x 172－287V | $\times$ | $\times$ | － | － | － | $\times$ | － | $\times$ | $\times$ | $\times$ | If the supply voltage falls below $60 \%$ of Un（OFF lower level），the relay will immediately disconnects with no delay Power supply L1－N，i．e．the relay also monitors the neutral wire interruption |
| HRN－43／UNI HRN－43／400 V | 3－M | $\begin{aligned} & \text { ACIDC } \\ & 24-204 \mathrm{~V} \\ & \text { AC } 400 \mathrm{~V} \end{aligned}$ | － | 3 | AC $3 \times 84-480 \mathrm{~V}$ | $\times$ | $\times$ | － | － | － | $(+\mathrm{OFF})$ | － | $\times$ | － | － | 2 output relays，functions of the second relay may be selected （independent／parallel） <br> Galvanically separated power supply． |
| HRN－43N／UNI HRN－43N／400 V | 3－M | $\begin{aligned} & \mathrm{AClDC} \\ & \text { a4240 } \\ & \text { CC 400 } \end{aligned}$ | － | 3 | AC $3 \times 48-276 \mathrm{~V}$ | $\times$ | $\times$ | － | － | － | $\underset{(1+\mathrm{of})}{\bullet}$ | － | x | － | － |  |
| $\begin{array}{\|l\|l\|} \hline \text { HRNN.56/208 } \\ \text { HRNN } \\ \text { HRN-56/24040 } \end{array}$ | ${ }^{1-M}$ | $\underset{\text { voltage }}{\text { monitored }}$ | $\times$ | 3 |  | $\times$ | － | $\times$ | － | － | $\times$ | － | ＊ | $\times$ | x | Thanks to the power supply from all three phases，the relay is operational even if one phase fails． |
| $\begin{aligned} & \text { HRN-56/480 } \\ & \text { HRN-56/575 } \end{aligned}$ | 3－M | $\begin{aligned} & \text { monitored } \\ & \text { voltage } \end{aligned}$ | $\times$ | 3 | $\begin{aligned} & \begin{array}{l} A C 3 \times 228-550 \mathrm{~V} \\ \mathrm{AC} C \times 3 \times 35-660 \mathrm{~V} \end{array} \end{aligned}$ | $\times$ | － | $\times$ | － | － | $\times$ | － | $\times$ | $\times$ | $\times$ |  |
| HRN3－70 | ${ }^{3-M}$ | monitored voltage | $\times$ | 3 | AC $3 \times 190-500 \mathrm{~V}$ | $\times$ | $\times$ | (o-fixed) | － | － | （＋OFF） | － | － | $\times$ | － | Adjustable restart delay from 1 to 300 s ． <br> ＊（ 0 －fixed ）$)$ over voltage value is fixed <br> （ $110 \%$ from selected range）． |
| PMR3－70 | 8－PIN | $\begin{gathered} \text { monitored } \\ \text { voltage } \end{gathered}$ | $\times$ | 3 | AC 3 $\times 190-500 \mathrm{~V}$ | $\times$ | $\times$ | $\begin{gathered} \bullet \\ \text { (o-fixed) } \end{gathered}$ | － | － | $\underset{(1+\circ f)}{\bullet}$ | － | － | $\times$ | － |  |
| HRN3－80 | ${ }^{1-M}$ | $\begin{gathered} \text { monitored } \\ \text { voltage } \end{gathered}$ | $\times$ | 3 | AC 3 $\times 208$－480V | $\times$ | － | $\times$ | － |  | (+off) | － | $\times$ | $\times$ | $\times$ | Selectable nominal voltage from 208 to 480 V ． |
| HRN3－81 | ${ }^{1-M}$ | $\begin{aligned} & \text { nonitored } \\ & \text { voltage } \end{aligned}$ | ＊ | 3 | AC 3 2008 －480V | $\times$ | $\times$ | $\times$ | － |  | $\underset{(+\circ f)}{\bullet}$ | － | $\times$ | $\times$ | $\times$ | Works in range from 208 to 080 V ． |
| HRN－100 | 2－M | $\begin{aligned} & \text { monitored } \\ & \text { voltage } \end{aligned}$ | x | 3 | $\begin{aligned} & u_{u}=3-155-500 \mathrm{~V} \\ & u_{u m}=3 \sim 90-288 \mathrm{~V} \end{aligned}$ | － | － | － | － | － | － | － | － | － | － | Configurable 3 or 4－wire connection Extensive setting options． Each output can be configured individually． |

## 18 VOLTAGE RELAYS 1-phase, AC/DC

## VOLTAGE RELAYS 1-phase, DC

1-phase, AC or DC



 Technical parameters Type of monitored volta
Monitored levels Functions
Monitored range Supply voltage Housing
Power supply Dimensions

| e of monitored voltage |  |
| :---: | :---: |
| nitored levels |  |
| ctions |  |
| nitored range |  |
| ply voltage |  |
| using |  |
| ver supply |  |
| ensions |  |



| Technical parameters | HRN-31\|HRN-31/2 PMR1-31|PMR1-31/2 |  | HRN-32/2 | HRN-39\|HRN-39/2 | PMR1-39\|PMR1-39/2 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Type of monitored voltage | AC/DC |  | AC/DC | AC/DC |  |
| Monitored levels | multifunction |  | multifunction | multifunction |  |
| Functions |  |  | nine, selectable by rotary switch |  |  |
| Monitoring range | $48.276 \mathrm{~V}$ |  | $48-276 \mathrm{~V}$ |  |  |
| Output | $1 \times \mathrm{CO}, 16 \mathrm{~A}\|2 \times \mathrm{CO}, 16 \mathrm{~A} 1 \times \mathrm{CO}, 16 \mathrm{~A}\| 2 \times \mathrm{CO}, 16 \mathrm{~A}$ |  | $2 \times \mathrm{CO}, 16 \mathrm{~A}$ | $1 \times \mathrm{CO}, 16 \mathrm{~A}\|2 \times \mathrm{CO}, 16 \mathrm{~A} 1 \times \mathrm{CO}, 16 \mathrm{~A}\| 2 \times \mathrm{CO}, 16 \mathrm{~A}$ |  |
| Housing | 1 1-Module | PLUG-IN(8-pin) | 1 1-MODULE | ${ }^{1}$-MODULE | PLUG-IN(8-pin) |
| Power supply | from monitored voltage |  |  |  |  |
| Dimensions | $48 \times 48 \times 79 \mathrm{~mm}\left(1.9^{\prime 9} \times 1.9^{\prime \prime} \times 3.15\right)$ |  | $90 \times 17.6 \times 64 \mathrm{~mm}\left(3.5^{\prime \prime} \times 0.7^{\prime \prime} \times 2.5\right)$ | $48 \times 48 \times 79 \mathrm{~mm}\left(1.9^{*} \times 1.9^{\prime \prime} \times 3.15^{5}\right)$ |  |
| Order code | $8494 \mid 8438$ | 8865\|8536 | 8539 | 8496\|8493 | 8868\|8869 |
|  | $1 \times$ common output contact for overvoltage and undervoltage. Adjustable delay 0-10 s to eliminate short-term peaks in the network. |  | $2 x$ independent output contacts, separately or overvoltage and undervoltage. Adjustable delay 0-10 s to eliminate short-term peaks in the network. <br> 口家 | $1 \times$ output contact for overvoltage and undervoltage. <br> Adjustable delay 0-10 sto eliminate short-term peaks in the network. |  |



## 20 VOLTAGE RELAYS 3-phases



CURRENT RELAYS 1-phase, AC

CURRENT RELAYS 1-phase, Ac
1-phase, AC \& DC $\qquad$ 3-phase, AC

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| Technical parameters | PRI-34 | PRI-41 PRI-42 | PRI-53 |
| Voltage type | AC | AC/DC | AC |
| Monitored levels | multifiunction | overcurrent and undercurrent | overcurrent or undercurrent |
| Function | eight, selectable by rotary switch | one | two |
| Monitored range | $0.1-16 \mathrm{~A}(50-60 \mathrm{~Hz})$ in 5 ranges | 3 inputs: $0.32-1.6 \mathrm{~A}, 1-5 \mathrm{~A}, 3.2-16 \mathrm{~A}$ ( AC 50-60 Hz) | $0.4-1,2 \mathrm{~A}(50-60 \mathrm{~Hz}) \quad 2-6 \mathrm{~A}(50-60 \mathrm{~Hz})$ |
| Output | $1 \times \mathrm{CO}, 16 \mathrm{~A}$ | $2 \times \mathrm{CO}, 16 \mathrm{~A}$ | $2 \times \mathrm{CO}, 8 \mathrm{~A}$ |
| Housing | 1-Module | 3-Module | 6 -Module |
| Power supply | AC/DC $24-240 \mathrm{~V}$ ( (AC $50-60 \mathrm{~Hz}$ ) | AC/DC $24-240 \mathrm{~V}$ ( $(\mathrm{CC} 50-60 \mathrm{~Hz})$ | AC/DC $24-240 \mathrm{~V}$ ( $\mathrm{ACS} 50-60 \mathrm{~Hz}$ ) |
| Dimensions | $90 \times 17.6 \times 64 \mathrm{~mm}\left(3.5^{\circ} \times 0.7^{\prime \prime} \times 2.5{ }^{5}\right)$ | $90 \times 52 \times 65 \mathrm{~mm}\left(3.5^{\prime \prime} \times 2^{\prime \prime} \times 2.6\right)^{\prime}$ | $90 \times 105 \times 64 \mathrm{~mm}\left(3.5^{\prime \prime} \times 4.1^{\prime \prime} \times 2.6\right)$ |
| Order code | 1A: 8896, 2A: 8282, 5A:8883, 8A: 8897, 16A:8284 | UN::8534 $\mid$ UN:8535 | 4213 |
|  | Measures true root mean square value -TRUE RMS. Option to select functions with error state memory (Latch). Possibility to extend the current range using an external CT. Power supply and monitoring circuits are not galvanically separated. | Independent supply voltage galvanically separated from the measured one, optional function of the 2nd relay, optional hysteresis $5 \%$ / 10\%, Memory function. | AC/DC $24-240 \mathrm{~V}$ power supply galvanically separated from the circuit of the monitored current. Selectable function: UNDER or OVER current. 2 types according to the rated curren $\ln (1 A, 5 A)$. |
|  |  |  |  |


|  | for monitoring one or two levels | for monitoring one or two levels in IP65 protection | for monitoring one or two levels, or pumping of tanks | for monitoring up to 6 -levels each probe has its own output contact |
| :---: | :---: | :---: | :---: | :---: |
| Technical parameters | HRH-5 | HRH-7 | HRH-8 | HRH-9 |
| Output | $1 \times \mathrm{CO}, 8 \mathrm{~A}$ | $1 \times \mathrm{CO}, 16 \mathrm{~A}$ | $2 \times \mathrm{CO}, 16 \mathrm{~A}$ | $6 \times \mathrm{NO}, 10 \mathrm{~A}$ |
| Sensitivity | 5-100 k $\Omega$ | 5-100 k $\Omega$ | 5-100 k $\Omega$ | 10-470 k $\Omega$ |
| Functions | 2 | 2 | 8 | 10 |
| Housing | 1 -MODULE | box | 3-Module | 6 -Module |
| Supply voltage (frequency) | $24-240 \mathrm{~V} \mathrm{AC} / \mathrm{DC}$ (AC $50-60 \mathrm{~Hz}$ ) | 24-240 V AC/DC (AC $50-60 \mathrm{~Hz}$ ) | AC/DC $24 \mathrm{~V} ; \mathrm{AC} 110 \mathrm{~V} ; \mathrm{AC} 230 \mathrm{~V}$; AC 400 V (AC $50-60 \mathrm{~Hz}$ ) | AC/DC $24-240 \mathrm{~V}$ (AC $50-60 \mathrm{~Hz}$ ) |
| Dimensions | $90 \times 17.6 \times 64 \mathrm{~mm}\left(3.5{ }^{\prime \prime} \times 0.7{ }^{\prime \prime} \times 2.5\right)$ | $139 \times 139 \times 56 \mathrm{~mm}(5.5 \times 5.5 \times 2.29)$ | $90 \times 52 \times 65 \mathrm{~mm}\left(3.5^{\prime \prime} \times 2^{\prime \prime} \times 2.6^{\prime \prime}\right)$ | $90 \times 105 \times 65 \mathrm{~mm}\left(3.5{ }^{\prime \prime} \times 4.1{ }^{\prime \prime} \times 2.6\right)$ |
| Order code | 8093 | 4947 | 230V: 5542 24V: 5556 | 8133 |
|  | The relay is designed for mon toring the level of conduc tive fluids with the option of selecting functions: pump-up or pump-down. Optionally se configurations: single-level or double level switch. | Suitable to operate/work in harsh conditions due to the high degree of protection IP65. The same functions as for HRH-5. | Within one device, the following <br> configurations can be selected: <br> $2 x$ one-level monitoring (in <br> separate tanks) <br> 1x two-level monitoring (in one tank) <br> - pumping from one tank to <br> another. | Each of the six probes has its own output contact. <br> Optional function of each probe independently <br> pump-up <br> pump-down <br> - including optional delay <br> Automatic and manual calibration |
| LIQUID LEVEL RELAYS |  | LIQUID LEVEL SETS P |  | PROBES AND CABLES |



| 0 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Technical parameters | TER-3A | TER-3B | TER3-C | TER-3D | ter-3E | TER-3H | ter-3F | TER-3G | TER-4 | TER-7 | TER-9 |
| Monitored range | $-30.10^{\circ} \mathrm{C}$ | 0. $40^{\circ} \mathrm{C}$ | $30.70^{\circ} \mathrm{C}$ | 0..600\% | $0 . .60^{\circ} \mathrm{C}$ | $-15.45^{\circ} \mathrm{C}$ | $0.60^{\circ} \mathrm{C}$ | 0..60 $0^{\circ}$ | $-40 . .110^{\circ} \mathrm{C}$ | 1.8-3.3 $\mathrm{k} \Omega$ | $-40 . .110^{\circ} \mathrm{C}$ |
| Thermosensor type |  |  | external | l, tciz |  |  | built-in | Pt100 | exteral, TC/TZ | external, PTC | external, TC/Tz |
| Output |  |  |  | $1 \times \mathrm{NO}, 16 \mathrm{~A}$ |  |  |  |  | $2 \times \mathrm{CO}, 16 \mathrm{~A}$ | $2 \times \mathrm{CO}, 8 \mathrm{~A}$ | $2 \times \mathrm{CO}, 8 \mathrm{~A}$ |
| Housing | 1 1-MODULE |  |  |  |  |  |  |  | 3-MODULE | 1 1-Module | 2-Module |
| Supply voltage <br> (frequency) | $\underset{\substack{\mathrm{AC} / \mathrm{DC}(24-240 \mathrm{~V} \\ \text { (AC } 50-60 \mathrm{~Hz})}}{ }$ |  |  |  |  |  |  |  | $\begin{gathered} \text { AC/DC 24-240V } \\ (\mathrm{AC} 50-60 \mathrm{~Hz}) \end{gathered}$ | AC/DC $24 \mathrm{~V}-240 \mathrm{~V}$ (AC $50-60 \mathrm{~Hz}$ ) | AC/DC $24 \mathrm{~V}, \mathrm{AC} 230 \mathrm{~V}$ (AC $50-60 \mathrm{~Hz}$ ) |
| Dimensions | $90 \times 17.6 \times 64 \mathrm{~mm}\left(3.5^{*} \times 0.7^{*} \times 2.5\right)$ |  |  |  |  |  |  |  | $\begin{gathered} 90 \times 52 \times 65 \mathrm{~mm} \\ (3.5 \times 2 \times 2 \times 2.6) \end{gathered}$ | $\begin{aligned} & 90 \times 17.6 \times 64 \mathrm{~mm} \\ & \left(3.5 \times 0.7^{7} \times 2.5\right) \end{aligned}$ | $\begin{gathered} 90 \times 35 \times 64 \mathrm{~mm} \\ \left(3.5 \times 1.4 \times 2.5^{\prime \prime}\right) \end{gathered}$ |
| $1 .$ |  <br> Simple thermostat for monitoring and regulating the temperature in 8 ranges from -30 to $+70^{\circ} \mathrm{C}$. Possibility of setting the "heating" / "cooling" function. Choice of external temperature sensors TC/TZ with double insulation in standard lengths of 3,6 and 12 m . |  |  |  |  |  |  |  | TER-4/UNI: 8533 <br> Double thermostat for monitoring and regulating the tem perature. <br> 2 inputs for $T C / T Z$ sensor. Galvanically solated power sup ply. | TER-7: 3716 <br> It monitors motor winding temperature. <br> PTC sensor built-in <br> in motor winding <br> is used as a sens- <br> ing element. | TER-9/230V: 4698 TER-9/24V: 4699 Digital thermostat with 6 functions. |
| Temperature sensors TC/TZ/PT100 more on page 23 |  |  |  |  |  |  | 空 |  |  |  |  |
| THERMOSTATS with IP65 protection |  |  |  |  |  |  |  |  |  |  |  |


| $B$ | two-level thermostat in IP65 protection |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | single-level thermostat in IP65 protection | single-level thermostat in IP65 protection | single-level thermostat for outdoor use with IP65 protection |
| Technical parameters | TEV-1 | TEV-2 | tev-3 | TEV-4 |
| Monitored range | $-20 .+20^{\circ} \mathrm{C}$ | $-20 .+20^{\circ} \mathrm{C}$ | +5...+35 ${ }^{\circ} \mathrm{C}$ | $-30 . .+60^{\circ} \mathrm{C}$ |
| Thermosensor type |  | external TC/TZ |  | built-in |
| Output |  | $1 \times \mathrm{Co}, 16 \mathrm{~A}$ |  | $1 \times \mathrm{NO}, 12 \mathrm{~A}$ |
| Housing |  | enclosure PP65 |  | 1P65 |
| Supply voltage (frequency) |  | AC $230 \mathrm{~V}(50-60 \mathrm{~Hz}$ ) |  | AC $230 \mathrm{~V}(50-60 \mathrm{~Hz})$ |
| Dimensions |  | $10 \times 135 \times 66 \mathrm{~mm}\left(4.33^{\prime \prime} \times 5.3^{\prime \prime} \times 6.6\right.$ |  | $\left.153 \times 62 \times 34 \mathrm{~mm}\left(6^{\prime \prime} \times 2.44^{\prime \prime} \times 1\right)^{\prime \prime}\right)$ |
| Order code | 2912 | 2925 | 2926 | 4057 |
|  | Window function $=$ monitors temperature between two set levels | Transparent cover to see setting and wiring. | Selectable function: cooling/ heating. Setting of the monitored temperature on enclosure | Selectable function: cooling/ <br> heating. <br> Option of voltage or potentia - free contact |



## in듸 Wireless <br> ELECTRO-INSTALLATION



26




| Technical parameters | RFSF-1B | RFSF-100 | RFSOU-1 | RFWD-100 | RFMD-100 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Battery power | 1×3V battery CR 2477 | $2 \times$ batteries 1.5 V AAA | $2 \times$ batteries 1.5 V AAA | $1 \times 3$ V battery CR 2032 | $2 \times$ batteries 1.5 V AAA |
| Design | box | disc box | 1 P 65 | interior | interior |
| Dimensions | $49 \times 49 \times 13 \mathrm{~mm}$ | $\varnothing 89 \times 23 \mathrm{~mm}$ | $72 \times 62 \times 34 \mathrm{~mm}$ | $25 \times 75 \times 16 \mathrm{~mm} / 15 \times 75 \times 14 \mathrm{~mm}$ | $72 \times 62 \times 34 \mathrm{~mm}$ |
| Protocol | RFIO | RFIO2 | RFIO | RFIO2 | RFIO2 |
| Order code | 4860 | 7682 | 4707 | 5027 | 5029 |
| FP-1 <br> Liquid probe <br> External probe designed for Level sensor RFSF-1B for flood monitoring. 1 m cable can be extended by 30 m . | Conductivity probes (recommended FP-1) can be connected to the INPUT terminals to monitor flooding or the level in the tank. When activated, it sends a command to the actuator or eLAN. | The flood detector is used to detect wate leaks - activation oc curs when the conacts located on the bottom of the detec tor are flooded. | 2 functions in 1 unit: <br> Twilight switch <br> for range 1-1.000 lx or <br> Light switch <br> for the range 100-100,000 lx <br> Setting the values of the potentiometers inside. Enclosure with increased IP65 protection for demanding environments. | Main device (wider part) and Magnet (narrower part) glued to the moving parts (door, window, gate ...). <br> Activation occurs when the detector is moved away from the magnet. | The motion detector PIR is used to detect persons moving inside the building interior. <br> Detection angle $105^{\circ}$ <br> Detection distance max: 12 m Working height: 2.4 m <br> Integrated light sensor and tamper against unwanted opening of the cover |

## DRY CONTACTS CONVERTERS

|  | $\ddot{p}:$ $\square$ <br> 4 contacts converter battery powered | $\ddot{P}$ <br> 4 contacts converter AC 230 V powered | $\because:-$ <br> 1 contact converter - permanent switching | Pulse converter |
| :---: | :---: | :---: | :---: | :---: |
| Technical parameters | RFIM-40B/BP-SL | RFIM-40B/230-SL | RFSG-1M | RFTM-1 |
| Battery power | batterie CR2032 | AC 230V ( $50-60 \mathrm{~Hz}$ ) | AC 10-230 ( $50-60 \mathrm{~Hz}$ ) | $2 \times 1.5$ batteries AAA |
| Design | Box-SL | box-SL | ${ }^{1-M O D U L E}$ | вох |
| Dimensions | $43 \times 44 \times 22 \mathrm{~mm}$ | $43 \times 44 \times 22 \mathrm{~mm}$ | $90 \times 17.6 \times 64 \mathrm{~mm}$ | $72 \times 62 \times 34 \mathrm{~mm}$ |
| Protocol | RFIO2 | RFIO2 | RFIO2 | RFIO |
| Order code | 8406 | 8407 | 8240 | 4315 |
|  | Converts 4 potential-free inputs that can be closed for a short time (buttons) or permanently (switch, contact) on the RF signal <br> RFIM-40B / BP-SL: battery supply (CR 123A) RFIM-40B / 230-SL: mains supply (AC 230V) |  | This wireless contact converter is espe cially appropriate for wireless transmission of information on switching HDO. Thanks to the network supply, it can also be used for partial transmission of information for control of an appliance or device. <br> Bidirectional communication RFIO2. | Allows conversion of pulses produced by energy meters. Via LS sensors (detects flashing LEDS on the meter) or MS - magnetic sensor for water meter handle or gas meter dial). It has a terminal for connecting the pulse output (open contact, So terminals of the electricity meter). |
|  |  |  |  |  |




SMART KITS preprogrammed for easy installation

## WIRELESS SWITCH



DIMMERS KITS

$\cdots \omega_{\infty}^{\infty}>\begin{aligned} & \text { WIRED } \\ & \text { ELECTRO-INSTALLATIONS } \\ & \text { iNELS BUS }\end{aligned}$


|  |  |  |  |
| :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Central unit } \\ \text { with } 1 \times \text { BUS, } 1 \times \text { EBM } \end{gathered}$ | Central unit with $2 x$ BUS | Central unit with $1 \times$ BUS, $1 \times$ DALI | Central unit with 1x BUS, $1 \times$ MODBUS |
| CU3-07M | CU3-08M | CU3-09M/DALI | CU3-109 |
| Order Code: 8010 <br> Cu3-07M is one of the basic system control units of iNELS BUS installations. The unit can work independently, as an autonomous project, or it can be controlled by the cental software or MQTT as part of a larger project. The unit is equipped with one BUS to which it is possible to connect up to 32 elements from the iNELS BUS portfolio. Ethernet connector is used for iNELS app or cloud communication or for communication with the superior unit within the iNELS IP topology. The central unit is implemented with MQTT protocol for 3rd party communication. | Order Code: 8440 <br> CU3-08M is one of the basic system control units of iNELS BUS installations. The unit can work independently, as an autonomous project, or it can be controlled by the cental software or MQTT as part of a larger project. The unit is equipped with two BUS, to which it is possible to connect a total of up to 64 elements $(2 \times 32)$ from the iNELS BUS portfolio. Ethernet connector is used for iNELS app or cloud communication or for communication with the superior unit within the iNELS IP topology. The central unit is implemented with MQTT protocol for 3rd party communication. | Order Code: 8465 <br> CU3-09M/DALI is a special version of the minified central unit and is designed to control DALI electronic ballasts from the iNELS system. The unit can work independently, as an autonomous project, or it can be controlled by the cental software or MQTT as part of a larger project. <br> The system unit is equipped with one BUS, one DALI bus and one RJ45 connector. The DALI system bus allows the control of up to 64 independent DALI ballast addresses for fluorescent, LED and other luminaires. Ethernet connector is used for iNELS app or cloud communication or for communication with the superior unit within the iNELS IP topology. The central unit is implemented with MQTT protocol for 3rd party communication. | Order Code: 8521 <br> CU3-10M is one of the basic system control units of iNELS BUS istallations. The unit can work independently, as an autonomous project, or it can be controlled by the cental software or MQTT as part of a larger project. The unit is equipped with one BUS to swich it is possible to connect up to 32 elements from the iNELS BUS portfolio. The CU3-10M system unit is equipped with one Modbus system bus. The Modbus system bus allows control of modbus termostat and Air condition units (RS-485). <br> Ethernet connector is used for iNELS app or cloud communication or for communication with the superior unit within the iNELS IP topology. The central unit is implemented with MQTT protocol for 3rd party communication. |
| SYSTEM UNITS |  |  |  |




|  |  | Switching actuator, 22-channels without control and indication components | Roller shutter (blind) actuator, 2-channels (1 controller) |  |
| :---: | :---: | :---: | :---: | :---: |
| Technical parameters | SA3-022M | EA3-022M | JA3-02B/DC | JA3-018M |
| Number of contacts | 20xNO $+1 \times$ COw withlocking (forshuters) | $20 \times \mathrm{NO}+1 \times$ CO with hlocking fors suuters) | DC 1 $\times 12-24 \mathrm{~V}$ | 9 9 CO with blocking |
| Switching current | according to the output ( $6 \mathrm{~A} / 10 \mathrm{~A}$ ) | according to the output ( $6 \mathrm{~A} / 10 \mathrm{~A}$ ) | 0.85 A | 4A/AC15 |
| Switching output | according to the output | according to the output |  | 1000 Va |
| Supply voltage (frequency) | $27 \mathrm{VDC},-20 /+10 \%$ | bus 27 VDC | BUS 27 VDC | $100-250 \mathrm{VaC}(50-60 \mathrm{~Hz})$ |
| Rated current from <br> BUS | 100 mA (at 27 VDC ) | 100 mA (at 27 VDC ) | $60 \mathrm{~mA}($ at 27 VDC$)$ | 5 mA (at 27 VDC$)$ |
| Housing | 6-MODULE | ${ }^{6}$-MODULE | BOX | ${ }^{6}$-MODULE |
| Dimensions | $90 \times 105 \times 65 \mathrm{~mm}$ | $90 \times 105 \times 65 \mathrm{~mm}$ | $49 \times 49 \times 13 \mathrm{~mm}$ | $90 \times 105 \times 65 \mathrm{~mm}$ |
| Order code | 3526 | 3523 | 3271 | 7446 |
|  | Actuator for controlling light circuits, appliances, thermo drives and 1 shutter ( 2 relays with blocking). Unit is equipped with 20x switching outputs and $1 \times$ change- over contact for controlling blinds or shutters. | Actuator for controlling light circuits, appliances, thermo drives and 1 shutter ( 2 relays with blocking). Unit is equipped with $20 x$ switching outputs and $1 \times$ change- over contact for controlling blinds or shutters | Actuator for controlling blinds, rollers, shutters and other motors powered by 24 V DC. Unit has $2 x$ analog or $2 x$ digital input | Actuator designed for controlling rollers, shutters, blinds, awnings, garage door on entrance gates. This unit can control up to 9 motors. |




|  |  |  |  |
| :---: | :---: | :---: | :---: |
| Technical parameters | RC3-610M/DALI | 10U3-108M | FA3-612M |
| Output | 8 NO contacts ( 10 A ), 2 x analog ( $0-10 \mathrm{~V}$ ), 16 DALI adress, DIN-4 | $8 \times$ switching, 10 A | $4 \times(0)-10 \mathrm{~V}, 4 \times$ switching, $4 \times$ SSR |
| Input | 6x digital (NO/NC) | 1x temperature, 8x digital | $3 x$ analog, 3x digital |
| Supply voltage | bus 27 VDC | bus 27 VDC | bus 27vdC |
| Rated current from BUS | 110 mA (at 27 VDC ) | $110 \mathrm{~mA}(\mathrm{at} 27 \mathrm{VDC})$ | 5 mA (at 27 VDC$)$ |
| Housing | 6 -Module | 6 6-Module | 6-MODULE |
| Dimensions | $90 \times 105 \times 65 \mathrm{~mm}$ | $90 \times 105 \times 65 \mathrm{~mm}$ | $90 \times 105 \times 65 \mathrm{~mm}$ |
| Order code | 8466 | 8188 | 3257 |
|  | The unit is designed to control hotel rooms. The unit is equipped with 6 binary inputs, of which 2 can be configured as temperature inputs and 8 independent relays with switch contacts. It also includes two analog outputs and a DALI bus for controlling up to 16 DALI ballasts. | Actuator can switch the appliances, light circuits, thermodrives, etc., possibility of connecting wired buttons and temperature sensors. Outputs supports zero-crossing mode. | Actuator is designed to control fan coil units using analog/digital inputs and analog/relay outputs. The unit has 3 analog inputs and 3 galvanically separated digital inputs. |
| WALL SWITCH CONTROLLERS |  |  |  |


|  | $\bigcirc \bigcirc$ <br> $\bigcirc \bigcirc$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glass wall card reader 6 buttons | 4 buttons $\quad$ Glass switch button controllers (SHARP edges) $\quad 6$ buttons9 buttons |  |  |
| Technical parameters | GMR3-61 | GSB3-40 | GSB3-60 | GSB3-90 |
| Number of buttons | 6 | 4 | 6 | 9 |
| Supply voltage | BUS 27 VDC | bus 27 VDC | BUS 27 VDC | BUS 27 VDC |
| Rated current from BUS | 50 mA (at 27 VDC$)$ | 25-40 mA (at 27 VDC ) |  |  |
| Internal temp. Sensor | yes | yes | yes | yes |
| Inputs | - | $1 \times$ temperature or $1 \times$ digital |  |  |
| Dimensions | $94 \times 94 \times 36 \mathrm{~mm}$ |  |  |  |
| Order code | 61/B: 5585 61/W: 5579 | 40/B: 8879 40/W: 8880 | 60/B: 8877 60/W: 8878 | 90/B: 8827 90/W:8828 |
|  | Glass wall reader with RFID and buttons can read chip cards, key fobs and control the entrace. Available in black and white color in Logus ${ }^{90}$ design. | Glass touch controllers with symbols GSB3-40, GSB3-60 and GSB3-90 are part of a comprehensive range of glass iNELS control units with four, sixand nine touch buttons whose functions can easily modify by the software. The glass touch controllers is equipped with an integrated temperature sensor. It is also equipped with analog-to-digital input (AIN/DIN), which can be used to connect potential-free contact or external temperature sensor TCCTZ. Available in elegant black (GSB3-40/B, GSB3-60/B, GSB3-90/B) and white (GSB3-40/W, GSB3-60/W, GSB3-90/W) versions. The individual capacitive buttons are point-illuminated by a white LED indicating the status of the controlled output. |  |  |
|  |  |  |  |  |
| GLASS TOUCH CONTROLLERS WITH SYMBOLS |  |  |  |  |






0 - $:=$
$\underset{\substack{\text { converter IP } \\ \Rightarrow \mathrm{RS} \\ \text {-485/232 }}}{ }$
eLAN-RS-485/232
Order code: 7026
The eLAN-RS485/232 allows you to control air-condition from your smart phone, tablet, or it can read a data from electronic security systems (Jablotron, Paradox) The eLAN-RS $485 / 232$ is connected to the router or switch and communicates with a smartphone over the network.

- Intuitive application environment offers centralized control from one place.
- If you don't have a fixed IP address, the converter will auto matically get it from the DHCP server.


You need a Connection server (to communicate with the application) to install.
. Set up via web interface.



The application allows you to easily control connected devices in Wireless and BUS gateways such as socket switching, dimming of lights, control of blinds or garage doors, control of heating circuits and compatible air conditioning. Of course, the display of available values, such as temperature, the status of a motion, window, door or flood detectors, or the current status of all controlled devices.
It now brings a clear Dashboard, on which it is possible to display the most used devices, previews of connected cameras or created scenes. With one click, you can control several devices at once. It is also now possible to integrate sip enabled Intercoms and you will get call notification and unlock the door from anywhere in the world. As a new feature you will get notifications on event of units connected to the account. Enter a whole new stage with the new iNELS mobile application, expanding the functions and integration options of the iNELS 2023 system.

Electroinstallation



Dashboard
Absolute control over the state of all technologies.


Colour setting
Easy adjustment of the light scene with one touch - switching, dimming, colour.


Device list
Control the device from anywhere.


Shutters/Blinds Possibility of individual or joint control of shading technology.


Rooms management Settings according to individua rooms.


Temperature You can set the temperature in each room exactly as you like

## 

Luxurious design for any interior


## DESIGN LINES

We offer you switches, sockets and accessories in standard design, plastic or metallic,
but you are also sure to be enchanted by the luxurious designs of frames madily not only in the visible parts of the covers, but also in the switch
mechanism itself. The mechanisms excel for their many features that make installation but you are also sure to be enchanted by the luxurious designs of frames made from $\begin{aligned} & \text { mechanism itself. The mechanisms excel for their many features that make installation } \\ & \text { quick and easy, and guarantee safe operation. Thanks to their special design, they can }\end{aligned}$
naterias solid wood, metal, granite or hardened glass - crystal.
The frame is complemented by a button cover in the shades of pearl, aluminum or e.g. dark gray or rice - where many combinations come alive based on the customer's wishes and personal taste. Not tust their refined design, but also long service lift and resilience are the hallmarks of these switches.
${ }_{\text {Smart fin }}^{\text {BASE }}$
.


## animato

Large selection of colors,
modern design and pleasant price,


CRYSTAL
Brightness and clarity.
Shades that bring the shine of crystals
Brightness and clarity.
Shades that bring the shine of crystals
into a honed experience.


arbore
Selection of natural materials.
Warm shades of wood with thei
varry shades of sood with heir
varying structures create a roon
happiness and sincere comfort.


PETRA
The beauty and stability of nature. Stone with its uneven patterns, shaped
by time and nature, represent the sens of firm and unending existence.


The entire design series are available from 1 frame up to 4 frames.
The BASE and $A Q U A R E L L A$ series are available from 1 frame up to 5 fram
Horizontal or vertical position of the frame is possible thanks to their symmetrical shape.
ce covers in red, orange

## DEVICES OVERVIEW



## DEVICES OVERVIEW

| - switches | - orientation lighting | - sockets radio, TV, satellite, data |
| :---: | :---: | :---: |
| . switches with lock | - shutters controllers | - telephone sockets |
| - time switches | - shutters controllers with IR sensor | - double button (2NO+2NC) |
| - over-switches | - digital time switch motion detectors | - programmable thermostat (space/floor) |
| - rotary switches | - card switch | - simple thermostat (space/floor) with infrared |
| - dimming switches | - standard socket | control automatic relay for controlling blinds |
| - two-pole switch | - sockets Schuko, EURO-USA | - multimedia sockets |
| - pushbuttons | - RJ45 connectors |  |
| - switch, pulling switch | - data sockets Cat 5, Cat 6 |  |

ADVANTAGES MECHANISMS Mechanism are made of special alloy of non-flammable plastics that prevent in destruction or damage of device body thanks to their strenght and elasticity.
The plastic design of the mechanism simultaneously ensures safe insulation from conductive parts of installation. The mounting frame is an integral part of the device. The device is compact, lightweight and enables easy and quick installation without using any tools.



Ability to test electrical functionality
of your device without disassembly.



Ability to test electrical functionality
of your device without disassembly


Card-System Timer Switch $16 \mathrm{~A}-100-240 \mathrm{~V} \sim$

Timer Switch
Timer Switch
$16 \mathrm{~A}-100-240 \mathrm{~V}$ -





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