

Efficient

Reliable

Flexible

Intelligent

Independent



## Switch Disconnectors DHS



10000  EN 60947

Designation	Article-No.
<b>63 A</b>	
DHS2-63 2-pole	XX 900 005
DHS4-63 4-pole	XX 900 007
<b>80 A</b>	
DHS2-80 2-pole	XX 900 006
DHS4-80 4-pole	XX 900 008
<b>100 A</b>	
DHS2-100 2-pole	XX 900 001
DHS4-100 4-pole	XX 900 003
<b>125 A</b>	
DHS2-125 2-pole	XX 900 002
DHS4-125 4-pole	XX 900 004

### Function:

The two-, three- or four-pole DHS switch-disconnectors are used as main switches at the input of system distributions. They enable the safe disconnection of the distribution and of the downstream installation from the power supply even when subject to load and overload. In some areas the electricity companies make their installation mandatory in their technical connection requirements.

### Features:

- Rated currents from 63 A to 125 A
- Highly short-circuit proof and high switching capacity
- Double-deck terminals for large wire diameter and rail at both ends
- Switch position indication
- View panel for labels

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 possible in all standard distribution panels.
- Any mounting position possible

# Further DIN-Rail Mounted Devices

## Applications:

Distributions in widely dispersed power supply nets, e.g. for

- Camping sites
- Marinas
- Allotment sites
- Exhibition grounds
- etc.

## Notes:

In practice the following types are used as main switches in compliance with IEC/EN 60947-3:

- Disconnectors
- Switches and
- Switch-disconnectors.

Disconnectors must fulfil the relevant requirements for a disconnecting function when in the Off position, but in operation only currents of negligible strength need to be switched.

A switch has to switch on and switch off currents in an electric circuit under operating conditions, inc. a specified operational overload. When the switch is in the Off position, no disconnecting function is required. A switch is therefore not suitable for safe disconnection as defined in the international design regulations.

The combination of these two types is the switch-disconnector which encompasses the features of both and can thus be employed universally for the completely safe isolation of installations.

## Accessories:

- DFA remote actuator
- DHi 2 auxiliary switch
- KA-DFS 4 terminal cover, sealable
- Reconnection locking facility (WES)



Technical data	Page 106
Dimensions	Page 114
Accessories	Page 38, 39, 66, 67

## Switch Disconnectors DIS



Designation	Article-No.
<b>16 A</b>	
DIS 16-1	XX 900 101
DIS 16-2	XX 900 102
DIS 16-3	XX 900 103
DIS 16-3.N	XX 900 104
DIS 16-4	XX 900 125
<b>20 A</b>	
DIS 20-1	XX 900 105
DIS 20-2	XX 900 106
DIS 20-3	XX 900 107
DIS 20-3.N	XX 900 108
DIS 20-4	XX 900 126
<b>25 A</b>	
DIS 25-1	XX 900 136
DIS 25-2	XX 900 137
DIS 25-3	XX 900 138
DIS 25-3.N	XX 900 139
DIS 25-4	XX 900 140
<b>32 A</b>	
DIS 32-1	XX 900 109
DIS 32-2	XX 900 110
DIS 32-3	XX 900 111
DIS 32-3.N	XX 900 112
DIS 32-4	XX 900 127
<b>40 A</b>	
DIS 40-1	XX 900 113
DIS 40-2	XX 900 114
DIS 40-3	XX 900 115
DIS 40-3.N	XX 900 116
DIS 40-4	XX 900 128
<b>63 A</b>	
DIS 63-1	XX 900 117
DIS 63-2	XX 900 118
DIS 63-3	XX 900 119
DIS 63-3.N	XX 900 120
DIS 63-4	XX 900 129

### Function:

The two-, three- or four-pole switch-disconnectors are used as main switches at the input of system distributions.

They enable the safe disconnection of the distribution and of the downstream installation from the power supply even when subject to load and overload. In certain areas the technical connection requirements of the relevant electricity companies make their installation mandatory.

### Features:

- Modular construction
- Wide range of rated currents from 16 A to 100 A
- Highly short-circuit proof and high switching capacity
- Double-deck terminals for large wire diameter and rail at both ends
- Switch position indication
- Conforms to international appliance design regulations IEC 60947-3, EN 60947-3 and BS 5419/77

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 possible in all standard distribution panels.
- Any mounting position possible

### Applications:

Main distributions in widely dispersed power supply nets, e.g. for

- Camping sites
- Marinas
- Allotment sites
- Exhibition grounds
- etc.

# Further DIN-Rail Mounted Devices

## Notes:

In practice the following types are used as main switches in compliance with IEC/EN 60947-3:

- Disconnectors
- Switches and
- Switch-disconnectors.

Disconnectors must fulfil the relevant requirements for a disconnecting function when in the Off position, but in operation only currents of negligible strength need to be switched.

A switch has to switch on and switch off currents in an electric circuit under operating conditions, inc. a specified operational overload. When the switch is in the Off position, no disconnecting function is required. A switch is therefore not suitable for safe disconnection as defined in the international design regulations.

The combination of these two types is the switch-disconnector which encompasses the features of both and can thus be employed universally for the completely safe isolation of installations.

## Accessories:

- Reconnection locking facility WES

Designation	Article-No.
<b>80 A</b>	
DIS 80-1	XX 900 131
DIS 80-2	XX 900 132
DIS 80-3	XX 900 133
DIS 80-3.N	XX 900 135
DIS 80-4	XX 900 134
<b>100 A</b>	
DIS 100-1	XX 900 121
DIS 100-2	XX 900 122
DIS 100-3	XX 900 123
DIS 100-3.N	XX 900 124
DIS 100-4	XX 900 130



Technical data

Page 107

Dimensions

Page 116

Accessories

Page 39

## Electronic Single-Phase AC Meter RWZ 12.11.13 / RWZ 12.11.14



EN 61036

Designation	Article-No.
<b>25 A</b>	
RWZ 12 11.13 230V 25A	XX 980 690
RWZ 12 11.13 230V 25A, certified	XX 980 691
<b>32 A</b>	
RWZ 12 11.14 230V 32A	XX 980 692
RWZ 12 11.14 230V 32A, certified	XX 980 693

### Function:

This model range replaces the classic electromechanical electricity meter. The meter count with its 6-digit display is easy to read. An S0-port provides the necessary counter pulses in energy management systems. Due to its narrow design (1 module) the RWZ product range can be installed in any distribution panel with DIN-rail.

### Features:

- Counter with 5 digits and one red decimal point digit
- Also available with PTB authorization for cash accounting purposes
- S0-interface as per DIN 43864 for energy management systems
- Pulse factor for opto-coupler output 2000 i/kWh
- Accuracy class 1
- 1 module width
- Consumption less than 0.5 W
- Conforms to IEC/EN 61036

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 possible in all standard distribution panels
- Any mounting position possible

### Applications:

- Energy management systems
- Camping sites
- Mooring berths
- Other leased facilities



Technical data  
Dimensions

Page 108  
Page 116

# Further DIN-Rail Mounted Devices

## Electronic Three-Phase AC Meter RDZ 34.52.41

### Function:

This model range replaces the classic electromechanical electricity meter. The meter count with its 6-digit display is easy to read. An S0-port provides the necessary counter pulses in energy management systems.

### Features:

- RDZ 34.52.41 230 V / 400 V AC, 5(65) A
- Counter with 5 digits and one red decimal point digit
- S0-interface as per DIN 43864 for energy management systems
- Pulse factor for opto-coupler output 2000 i/kWh
- Accuracy class 1
- 4 module widths
- Conforms to IEC/EN 61036

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 possible in all standard distribution panels
- Any mounting position possible

### Applications:

- Energy management systems
- Camping sites
- Mooring facilities
- Other leased objects



EN 61036

Designation	Article-No.
RDZ 34.52.41	XX 980 698



Technical data  
Dimensions

Page 108  
Page 116

## D0 Master Disconnecter – Tytan



Designation	Article-No.
<b>2 A pink</b>	
D0 Master Disconnecter, 1-pole	XX 980 385
D0 Master Disconnecter, 3-pole	XX 980 391
<b>4 A brown</b>	
D0 Master Disconnecter, 1-pole	XX 980 386
D0 Master Disconnecter, 3-pole	XX 980 392
<b>6 A green</b>	
D0 Master Disconnecter, 1-pole	XX 980 387
D0 Master Disconnecter, 3-pole	XX 980 393
<b>10 A red</b>	
D0 Master Disconnecter, 1-pole	XX 980 388
D0 Master Disconnecter, 3-pole	XX 980 394
<b>16 A grey</b>	
D0 Master Disconnecter, 1-pole	XX 980 389
D0 Master Disconnecter, 3-pole	XX 980 395
<b>20 A blue</b>	
D0 Master Disconnecter, 1-pole	XX 980 390
D0 Master Disconnecter, 3-pole	XX 980 396
<b>25 A yellow</b>	
D0 Master Disconnecter, 1-pole	XX 980 382
D0 Master Disconnecter, 3-pole	XX 980 397
<b>35 A black</b>	
D0 Master Disconnecter, 1-pole	XX 980 381
D0 Master Disconnecter, 3-pole	XX 980 383
<b>50 A white</b>	
D0 Master Disconnecter, 1-pole	XX 980 380
D0 Master Disconnecter, 3-pole	XX 980 384
<b>63 A copper</b>	
D0 Master Disconnecter, 1-pole	XX 980 086
D0 Master Disconnecter, 3-pole	XX 980 087

### Function:

The Tytan D0 master disconnecters work on the same plug-in principle as the familiar HRC cutouts. Correct contact pressure for the fuse insert is set at the factory by means of spring loading; constant minimum resistance contact is thus ensured during entire service life. In contrast to the screw method, the multi-pole D0 master disconnecters are always all-pole disconnected by hand.

### Features:

- Extensive range of types
  - 1 - 3-pole
  - 2 A - 63 A
  - without fuses
  - with insert
  - with fuse carrier
  - with mechanical indication
- Little Joule's heat loss
- Suitable for fuses D0 1 and D0 2
- Finger- and back-of-the-hand proof
- Terminal cross-section from 1.5 mm<sup>2</sup> to 35 mm<sup>2</sup>

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 possible in all standard distribution panels.
- Any mounting position possible

### Applications:

Power supply of domestic and utility buildings as well as industrial installations.

### Note:

Fuse carriers of the old „screw cap type“ are one of the biggest „generators of heat“ in distribution boards. This thermal problem is exacerbated if the carriers are not fully screwed down or if they work loose over time during operation. A loose screw carrier can be the cause of up to 30 watts of preventable energy loss.

### Accessories:

- Fuse carrier set with mechanical indication
- Fuse carrier set with blink indicator
- Restart locking facility with cylinder lock
- Restart locking facility with plastic lock
- Also available with fuse monitoring



Technical data

Page 109

Dimensions

Page 117

Accessories

Page 80 - 82

# Further DIN-Rail Mounted Devices

## Empty Housing – Tytan for D0 Master Disconnecter

### Function:

Empty housing for individual assembly.  
The Tytan D0 master disconnectors work on the same plug-in principle as the familiar HRC cutouts. Correct contact pressure for the fuse insert is set at the factory by means of spring loading; constant minimum resistance contact is thus ensured during entire service life. In contrast to the screw method, the multi-pole D0 master disconnectors are always all-pole disconnected by hand.

There are two types of fuse carriers:

- In the case of fuse carriers with blink indicator, a flashing LED signals the outage of a D0 fuse.
- With mechanical indication, it is the same as with the standard screw-in type. A defective fuse can be identified by looking through the window provided.

### Features:

- Designed for fitting 2 – 63A fuse carrier sets either with LED indicator or with mechanical indication
- Extensive range of types
- 1-pole, 1-pole+N, 2-pole, 3-pole, 3-pole+N
- Little Joule's heat loss (0.5 W per current path)
- Suitable for fuses D0 1 and D0 2
- Finger- and back-of-the-hand proof
- Terminal cross-section from 1.5 mm<sup>2</sup> to 35 mm<sup>2</sup>

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 possible in all standard distribution panels.
- Any mounting position possible

### Applications:

Power supply of domestic and utility buildings as well as industrial installations.

### Note:

Fuse carriers of the old „screw cap type“ are one of the biggest „generators of heat“ in distribution boards. This thermal problem is exacerbated if the carriers are not fully screwed down or if they work loose over time during operation. A loose screw carrier can be the cause of up to 30 watts of preventable energy loss.

### Accessories:

- Fuse carrier set with mechanical indication
- Fuse carrier set with blink indicator
- Restart locking facility with cylinder lock
- Restart locking facility with plastic lock
- Also available with fuse monitoring



Technical data	Page 109
Dimensions	Page 117
Accessories	Page 80 - 82



Designation	Article-No.
<b>1 – 63 A</b>	
Empty Housing, 1-pole for D0 Master Disconnecter	XX 980 101
Empty Housing, 1-pole+N for D0 Master Disconnecter	XX 980 104
Empty Housing, 2-pole for D0 Master Disconnecter	XX 980 102
Empty Housing, 3-pole for D0 Master Disconnecter	XX 980 103
Empty Housing, 3-pole+N for D0 Master Disconnecter	XX 980 105

## Lockable Empty Housing – Tytan for D0 Master Disconnecter



Designation	Article-No.
<b>1 – 63 A</b>	
Lockable Empty Housing, 3-pole for D0 Master Disconnecter	XX 980 106
Lockable Empty Housing, 3-pole+N for D0 Master Disconnecter	XX 980 107

### Function:

Empty housing for individual assembly.  
The Tytan D0 master disconnecters work on the same plug-in principle as the familiar HRC cutouts. Correct contact pressure for the fuse insert is set at the factory by means of spring loading; constant minimum resistance contact is thus ensured during entire service life. In contrast to the screw method, the multi-pole D0 master disconnecters are always all-pole disconnected by hand. Some electricity companies make installation of the lockable type mandatory. Such locking can then only be carried out with the electricity company's special key.

### Features:

- Designed for fitting 2 – 63 A fuse carrier sets either with LED indicator or with mechanical indication
- 3-pole, 3-pole+N
- Little Joule's heat loss
- Suitable for fuses D0 1 and D0 2
- Finger- and back-of-the-hand proof
- Terminal cross-section from 1.5 mm<sup>2</sup> to 35 mm<sup>2</sup>

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 possible in all standard distribution panels.
- Any mounting position possible

### Applications:

Power supply of domestic and utility buildings as well as industrial installations.

### Note:

Fuse carriers of the old „screw cap type“ are one of the biggest „generators of heat“ in distribution boards. This thermal problem is exacerbated if the carriers are not fully screwed down or if they work loose over time during operation. A loose screw carrier can be the cause of up to 30 watts of preventable energy loss.

### Accessories:

- Fuse carrier set with mechanical indication
- Fuse carrier set with blink indicator
- Restart locking facility with cylinder lock
- Restart locking facility with plastic lock



Technical data

Page 109

Dimensions

Page 117

Accessories

Page 80 - 82

# Further DIN-Rail Mounted Devices

## Empty Housing with Fuse Monitor – Tytan for D0 Master Disconnecter

### Function:

Empty housing for individual assembly. The Tytan D0 master disconnectors work on the same plug-in principle as the familiar HRC cutouts. Correct contact pressure for the fuse insert is set at the factory by means of spring loading; constant minimum resistance contact is thus ensured during entire service life. In contrast to the screw method, the multi-pole D0 master disconnectors are always all-pole disconnected by hand. The fuse monitoring facility serves as operating mode indicator. In the event of a fuse outage the fuse monitor will send a message to an optional signalling device (buzzer, indicator lamp etc.). The fuse monitor ensures three-phase operation and thus provides additional protection for three-phase motors.

### Features:

- Designed for fitting 2 – 63 A fuse carrier sets either with LED indicator or with mechanical indication
- Extensive range of types
- 1-pole, 1-pole+N, 2-pole, 3-pole, 3-pole+N
- LED green (ON), 1 normally-open contact 250 V / 5 A, electrically isolated
- LED red flashing (short-circuit), 2 change-over contacts, 250 V / 5 A each, electrically isolated
- Little Joule's heat loss
- Suitable for fuses D0 1 and D0 2
- Finger- and back-of-the-hand proof
- Terminal cross-section from 1.5 mm<sup>2</sup> to 35 mm<sup>2</sup>

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 possible in all standard distribution panels.
- Any mounting position possible

### Applications:

Power supply of domestic and utility buildings as well as industrial installations.

### Note:

Fuse carriers of the old „screw cap type“ are one of the biggest „generators of heat“ in distribution boards. This thermal problem is exacerbated if the carriers are not fully screwed down or if they work loose over time during operation. A loose screw carrier can be the cause of up to 30 watts of preventable energy loss.

### Accessories:

- Fuse carrier set with mechanical indication
- Fuse carrier set with blink indicator
- Restart locking facility with cylinder lock
- Restart locking facility with plastic lock



Designation	Article-No.
<b>1 – 63 A</b>	
Empty Housing with fuse monitor, 1-pole for D0 Master Disconnecter	XX 980 088
Empty Housing with fuse monitor, 1-pole+N for D0 Master Disconnecter	XX 980 091
Empty Housing with fuse monitor, 2-pole for D0 Master Disconnecter	XX 980 089
Empty Housing with fuse monitor, 3-pole for D0 Master Disconnecter	XX 980 090
Empty Housing with fuse monitor, 3-pole+N for D0 Master Disconnecter	XX 980 092



Technical data	Page 109
Dimensions	Page 117
Accessories	Page 80 - 82

## D0 Fuse Carrier Set – Tytan with Mechanical Indicator



Designation	Article-No.
<b>2 A</b>	
D0 Fuse Carrier Set with mechanical indicator, 3x2A	XX 980 120
<b>4 A</b>	
D0 Fuse Carrier Set with mechanical indicator, 3x4A	XX 980 121
<b>6 A</b>	
D0 Fuse Carrier Set with mechanical indicator, 3x6A	XX 980 122
<b>10 A</b>	
D0 Fuse Carrier Set with mechanical indicator, 3x10A	XX 980 123
<b>16 A</b>	
D0 Fuse Carrier Set with mechanical indicator, 3x16A	XX 980 124
<b>20 A</b>	
D0 Fuse Carrier Set with mechanical indicator, 3x20A	XX 980 125
<b>25 A</b>	
D0 Fuse Carrier Set with mechanical indicator, 3x25A	XX 980 126
<b>35 A</b>	
D0 Fuse Carrier Set with mechanical indicator, 3x35A	XX 980 127
<b>50 A</b>	
D0 Fuse Carrier Set with mechanical indicator, 3x50A	XX 980 128
<b>63 A</b>	
D0 Fuse Carrier Set with mechanical indicator, 3x63A	XX 980 129

### Function:

This box is designed for fitting into the D0 empty housing and contains 3 plug-in holders, 3 inserts and 3 fuses with mechanical indicator. The box can be snap-fastened on to a DIN-rail and thus can also serve as a reserve box.

### Features:

- Fits into the Tytan D0 empty housing
- Reserve box
- 3 fuses with mechanical indication
- 3 inserts
- 3 plug-in carriers
- 2 – 63 A, colour-coded

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 possible in all standard distribution panels.

### Applications:

Power supply of domestic and utility buildings as well as industrial installations.



Technical data  
Dimensions

Page 109  
Page 117

## D0 Fuse Carrier Set – Tytan with Blink Indicator

### Function:

This box is designed for fitting into the D0 empty housing and contains 3 plug-in holders, 3 inserts and 3 fuses with blink indicator. The flashing LED signals the outage of a D0 fuse. The box can be snap-fastened on to a DIN-rail and thus can also serve as a reserve box.

### Features:

- Fits into the Tytan D0 empty housing
- Reserve box
- 3 fuses with flashing indicator
- 3 inserts
- 3 plug-in carriers
- 2 – 63 A, colour-coded

### Mounting method:

Snap-on fastening on DIN-rail to EN50022 possible in all standard distribution panels.

### Applications:

Power supply of domestic and utility buildings as well as industrial installations.



Designation	Article-No.
<b>1 A</b>	
D0 Fuse Carrier Set with blink indicator, 3x1A	XX 980 109
<b>2 A</b>	
D0 Fuse Carrier Set with blink indicator, 3x2A	XX 980 110
<b>4 A</b>	
D0 Fuse Carrier Set with blink indicator, 3x4A	XX 980 111
<b>6 A</b>	
D0 Fuse Carrier Set with blink indicator, 3x6A	XX 980 112
<b>10 A</b>	
D0 Fuse Carrier Set with blink indicator, 3x10A	XX 980 113
<b>16 A</b>	
D0 Fuse Carrier Set with blink indicator, 3x16A	XX 980 114
<b>20 A</b>	
D0 Fuse Carrier Set with blink indicator, 3x20A	XX 980 115
<b>25 A</b>	
D0 Fuse Carrier Set with blink indicator, 3x25A	XX 980 116
<b>35 A</b>	
D0 Fuse Carrier Set with blink indicator, 3x35A	XX 980 117
<b>50 A</b>	
D0 Fuse Carrier Set with blink indicator, 3x50A	XX 980 118
<b>63 A</b>	
D0 Fuse Carrier Set with blink indicator, 3x63A	XX 980 119



Technical data  
Dimensions

Page 109  
Page 117

## D0 Restart Locking Facility – Tytan with Cylinder Lock/Plastic Lock



Designation	Article-No.
D0 Restart Locking Facility with Cylinder Lock, 5A5, black	XX 980 130
D0 Restart Locking Facility with Cylinder Lock, 5A4, blue	XX 980 131
D0 Restart Locking Facility with Cylinder Lock, 5A3, green	XX 980 132
D0 Restart Locking Facility with Cylinder Lock, 5A1, red	XX 980 133
D0 Restart Locking Facility with Cylinder Lock, 5A2, yellow	XX 980 134

### Function:

For securing the installation against restoring power when carrying out maintenance or repair work. Setting the lock reliably prevents the accidental reconnection of mains voltage with the Tytan fuse disconnecter by e.g. unauthorized personnel. The lock is supplied with a storage box which can easily be snapped on to a DIN-rail.

### Features:

Cylinder lock with 2 keys

### Mounting method:

Snap-on fastening on DIN-rail to EN 50022 possible in all standard distribution panels.

### Applications:

Power supply of domestic and utility buildings as well as industrial installations.



Technical data  
Dimensions

Page 109  
Page 117



Designation	Article-No.
D0 Restart Locking Facility with Plastic Lock, black	XX 980 135
D0 Restart Locking Facility with Plastic Lock, blue	XX 980 136
D0 Restart Locking Facility with Plastic Lock, green	XX 980 137
D0 Restart Locking Facility with Plastic Lock, yellow	XX 980 138
D0 Restart Locking Facility with Plastic Lock, red	XX 980 139

### Function:

For securing the installation against restoring power when carrying out maintenance or repair work. Setting the lock reliably prevents the accidental reconnection of mains voltage with the Tytan fuse disconnecter by e.g. unauthorized personnel. The lock is supplied with a storage box which can easily be snapped on to a DIN-rail.

### Mounting method:

Snap-on fastening on DIN-rail to EN50022 possible in all standard distribution panels.

### Applications:

Power supply of domestic and utility buildings as well as industrial installations.



Technical data  
Dimensions

Page 109  
Page 117

# Further DIN-Rail Mounted Devices

## Doorbell Transformer RK

### Function:

Transformers for converting the 230 V mains voltage into protective extra low-voltage (SELV as per IEC 60 364-4-410).

### Features:

- Short-circuit resistant due to PTC
- Tested to EN 61558
- Certified by both VDE and KEMA, carries the ENEC-mark for use anywhere in Europe.

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 (2 modules) possible in all standard distribution panels.
- Any mounting position possible

### Applications:

- AC power supply for
  - bell systems
  - locking systems
  - relay circuits
  - etc.

### Notes:

- Restore operation after a short-circuit by briefly disconnecting the primary power input.
- With small loads, or idling, the output voltage may rise
- Only for transient loading
- In the case of permanent loads we recommend using safety transformers

### Accessories:

- RKM 36
- Surface mounting set for RK 81, RK 81 S, RK 12, RK 12 S, RK 24
- RKM 54
- Surface mounting set for RK 3 U



Designation	Article-No.
<b>8 V</b>	
RK 81, 1 A	XX 980 029
RK 81 S, 1 A	XX 980 030
<b>4/8/12 V</b>	
RK 12, 2/2/1,5 A	XX 980 033
RK 12 S, 2/2/1,5 A	XX 980 034
RK 3U, 3/2/2 A	XX 980 085
<b>8/12/24 V</b>	
RK 24, 2/1,3/0,6 A	XX 980 654
<b>Accessories</b>	
RKM 36, Surface mounting set for RK 81, RK 81 S, RK 12, RK 12 S, RK 24	XX 980 652
RKM 54, Surface mounting set for RK 3U	XX 980 653



Technical data  
Dimensions

Page 110  
Page 123

## Rotary Dimmer 500 VA LT 500 M



Designation	Article-No.
LT 500M	XX 500 224

### Function:

Dimmer operated by a rotary knob for the power control of all standard types of illuminations, such as e.g. incandescent lamps, high-voltage and low-voltage halogen lamps with electric or conventional transformers.

For these resistive-inductive loads or resistive-capacitive loads the dimmer can work in a normal or reverse phase control mode. If the operating mode has been set incorrectly, or if a short-circuit occurs, the dimmer will automatically disconnect the load. In addition, the LT 500 M is equipped with thermal overload protection, electronic short-circuit cut-out, overvoltage protection and a soft-start function.

The device is also provided with electronic half-wave balancing and idle monitoring. This ensures the prevention of magnetic bias when conventional mains transformers are connected and of overvoltages when idling.

### Features:

- Operated by integral rotary knob
- Dimming capacity: 15 VA – 500 VA
- 2 module widths only
- Phase control and reverse phase control dimmer
- Central On and Off function, memory function

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 (2 modules) possible in all standard distribution panels.
- Any mounting position possible

### Applications:

- Lighting control in
  - Restaurants
  - etc.



Technical data  
Dimensions

Page 111  
Page 118

# Further DIN-Rail Mounted Devices

## Remote Dimmer 420 VA RUD 1

actuated via external push-buttons

### Function:

Remote dimmer for controlling the light intensity of all standard type of illuminations, such as e.g. incandescent lamps, high-voltage and low-voltage halogen lamps with electric or conventional transformers.

For these resistive-inductive loads or resistive-capacitive loads the dimmer can work in a normal or reverse phase control mode. If the operating mode has been set incorrectly, or in the event of a short-circuit, it will automatically disconnect the load. In addition, the RUD 1 is equipped with thermal overload protection, electronic short-circuit cut-out, overvoltage protection and a soft-start function.

The device is also provided with electronic half-wave balancing and idle monitoring. This ensures the prevention of magnetic bias when conventional mains transformers are connected and of overvoltages when idling.

### Features:

- Actuation via standard push-buttons
- Dimming capacity: 15 VA - 420 VA
- 2 module widths only
- Phase control and reverse phase control dimmer
- Central On and Off function, memory function

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 (2 modules) possible in all standard distribution panels.
- Any mounting position possible

### Applications:

- Lighting control in
  - Private houses
  - Banks
  - Hospitals
  - Restaurants
  - etc.



Designation	Article-No.
RUD 1	XX 500 028



Technical data  
Dimensions

Page 112  
Page 118

## Remote Dimmer Control Unit RUD 2



Designation	Article-No.
RUD 2	XX 500 203

### Function:

The RUD 2 functions as a control module for the remote dimmer load units LT 500 and LT 1200. Actuation of the RUD 2 is via standard push-buttons.

### Features:

- Output: Puls Width Modulation (PWM) signal for actuating up to ten LT 500 and LT 1200 load units
- Small size (1 module)
- Central On and Off function, memory function

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 (2 modules) possible in all standard distribution panels.
- Any mounting position possible

### Applications:

- In conjunction with the remote dimmer load units the RUD 2 controls lighting in
  - Private houses
  - Banks
  - Hospitals
  - Restaurants
  - etc.



Technical data  
Dimensions

Page 112  
Page 115

# Further DIN-Rail Mounted Devices

## Remote Dimmer Power Units LT 500 and LT 1200

### Function:

Power units for light intensity control of all standard type of illuminations, such as e.g. incandescent lamps, high-voltage and low-voltage halogen lamps with electric or conventional transformers.

If the operating mode has been set incorrectly, or in the event of a short-circuit, the LT 500 and LT 1200 will automatically disconnect the load. In addition, both devices are equipped with thermal overload protection, electronic short-circuit cut-out, overvoltage protection and a soft-start function.

The load output stages are also provided with electronic half-wave balancing and idle monitoring. This ensures the prevention of magnetic bias when conventional mains transformers are connected and of overvoltages when idling. Up to 10 load units can be actuated via the PWM signal output of a remote dimmer, a dimmer control unit or a lighting scene control device, and can be operated either in a normal or reverse phase control mode. It is also permissible to connect two stages in parallel at the output side.

Selection of the output stages thus enables the control to be flexibly adapted to the lamp load.

### Features:

- Parallel connection at output side of two LT 1200 possible (2400 VA)
- Dimming capacity LT 500: 15 VA – 500 VA (2 modules)
- Dimming capacity LT 1200: 15 VA – 1200 VA (4 modules)
- Phase control and reverse phase control dimmer

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 possible in all standard distribution panels.
- Any mounting position possible

### Applications:

- Lighting control in buildings with extensive artificial lighting such as
  - Banqueting and theatre halls
  - Churches
  - Restaurants
  - etc.



Designation	Article-No.
LT 500	XX 500 226
LT 1200	XX 500 227



Technical data  
Dimensions

Page 112  
Page 118

## Power Supply Unit NT 24-250







 EN 61008

Designation	Article-No.
NT 24-250	XX 500 162

### Function:

The NT 24-250 power pack is primary pulsed, stabilized 24 V DC power supply and meet the requirement of electrical isolation between the protective low voltage and low-voltage side as specified in IEC 60 364-4-41.

They are overload as well as sustained short-circuit resistant and are equipped with indicators for such overload faults.

Once the fault in the output circuit has been remedied, they will automatically return to the normal operating status.

### Features:

- Compact design
- High degree of efficiency
- Protective extra low voltage (SELV) conforming to IEC 60 364-4-41
- High stability of output voltage
- Overload proof
- Sustained short-circuit resistant
- Status and Overload indication via LEDs on front panel

### Mounting method:

- Snap-on fastening on DIN-rail to EN 50022 possible in all standard distribution panels
- Any mounting position possible

### Applications:

- Power supply unit for 24 V DC DIN-rail devices such as e.g. Dupline bus system, SI system etc.

### Notes:

Basically, it is possible to connect several power supply units in parallel; in such cases however the total load capacity of the parallel-connected power supply units must be reduced by 10%. Only a maximum of 3 power supply units of the same type, either NT 24-250 or NT 24-1300, may be connected in parallel.



Technical data  
 Dimensions

Page 113  
 Page 118