NOLTA

NN

ALWAYS THINKING AHEAD

NEW PRODUCTS


STRABAG
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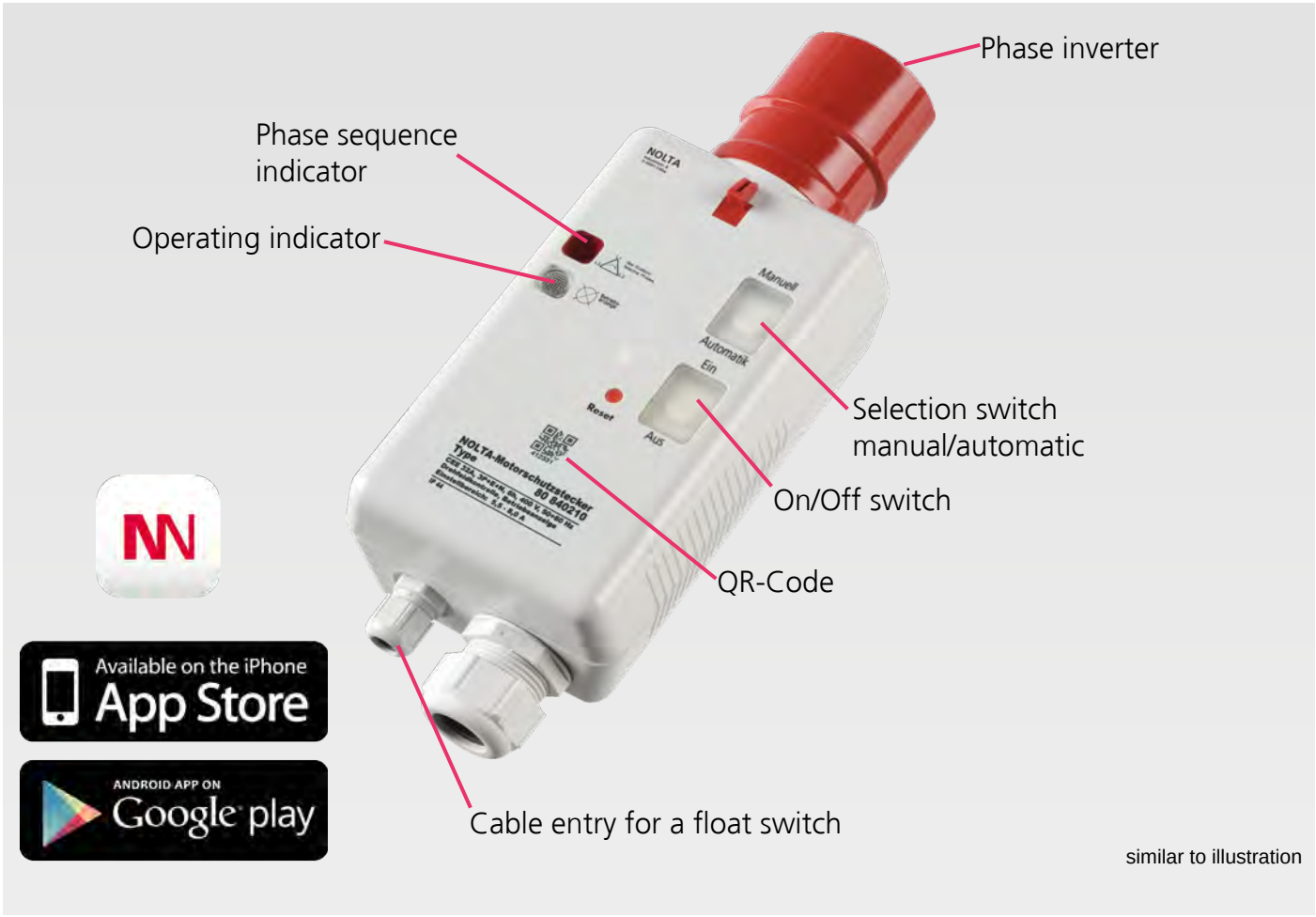
NOLTA
Abluft
Betrieb
Drehfeld
Pumpe 1
Pumpe 2
Pumpe 3

NOLTA means flexibility

Our innovative solutions ensure that permanently installed applications become mobile. From the connection of a drainage pump in a family home to the pump control of the world's largest tunnel construction site at the Brenner.

NOLTA solutions are always flexible, easy to use and mobile.

Contactor combination with NOLTAnet



Available on the iPhone App Store

ANDROID APP ON Google play

The NOLTA contactor combination has been specially designed for use in connection with portable, electric motor-driven apparatus, machines and devices and bundles the necessary protection and control technology for motors up to 5,5 kW in a compact, mobile housing. The contactor combination is available with a 16A or 32A CEE plug and thermal contact connection, phase inverter and rotating field control as well as an operating display can be integrated as options. A selector switch can be used to choose between manual and automatic mode so that the connected motor can be controlled via a level controller, for example. **The integrated NOLTAnet module enables the operating status and hours of operation to be recorded, fault messages to be transmitted via push message and the device to be located.**

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NOLTA Contactor combination with NOLTAnet

Available versions

Voltage Frequency	Plug Pins	Features	CEE 16 A	CEE 32 A
400 V, 6h, 50-60 Hz	3L+N+P		80 4400..	80 8400..
	3L+N+P	Phase inverter + Phase sequence indicator	80 4401..	80 8401..
	3L+N+P	Phase inverter + Phase sequence indicator + Operating indicator	80 4402..	80 8402..

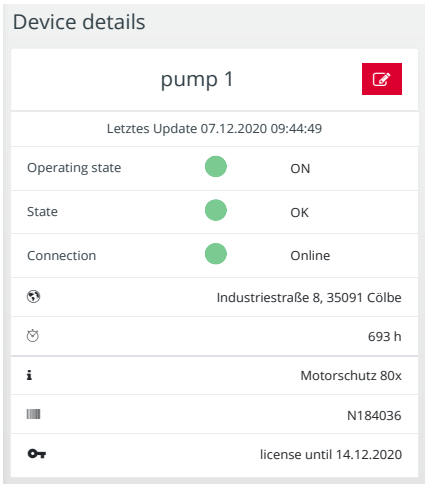
Technical data

Switch cycles	Max. 30 starts/h
Mech. Life span	10^7 switching cycles
Operating voltage	400 V AC
Nominal operating current	0,1A - 14A
Rated power AC3/400V	Max. 5,5 kW
Supply frequency	50 - 60 Hz
Temperature range	-25 - +50°C
Magn. Tripping	No
Therm. Tripping	Yes
Protection class	IP44
Supply	CEE-plug 16A / 32A
Cable entry	Motor: M 32 (11-21 mm) Control: M 16 (4,5 - 10 mm)
Housing	Polycarbonate (PC)
Dimensions	16A: 290 x 110 x 80 mm (L x W x H) 32A: 310 x 110 x 80 mm (L x W x H)
Weight	1.1 kg

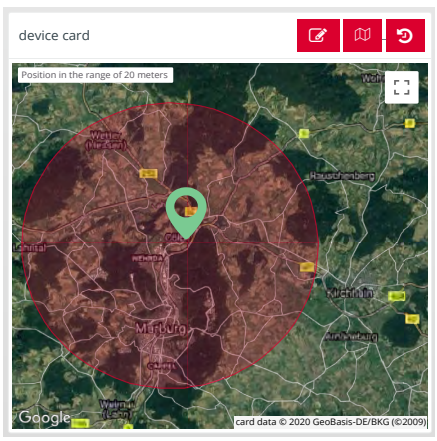
Adjustment range

Adjustment range	max. Back up fuse	Order-No. addition
0.10 - 0.23 A	0,5 A	..01
0.23 - 0.36 A	1,0 A	..02
0.36 - 0.54 A	1,6 A	..03
0.54 - 0.80 A	2,0 A	..04
0.80 - 1.20 A	4,0 A	..05
1.20 - 1.80 A	6,0 A	..06
1.80 - 2.60 A	8,0 A	..07
2.60 - 3.70 A	10,0 A	..08
3.70 - 5.50 A	16,0 A	..09
5.50 - 8.00 A	20,0 A	..10
8.00 - 11.50 A	25,0 A	..11
10.50 - 14.00 A	32,0 A	..12

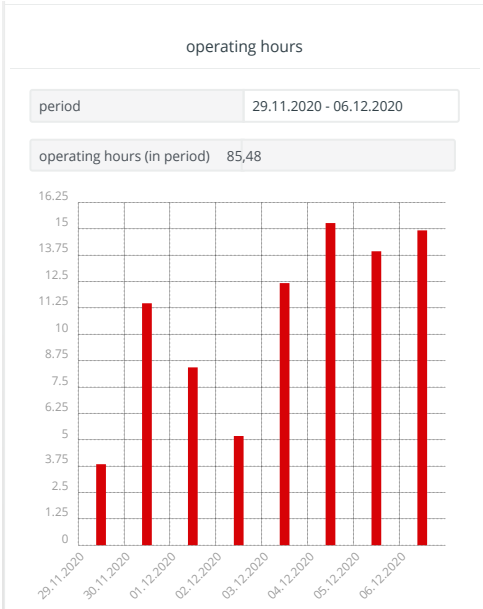
Configuration and monitoring via NOLTAnet app



- Overview of operating hours and operating status in a freely selectable time interval

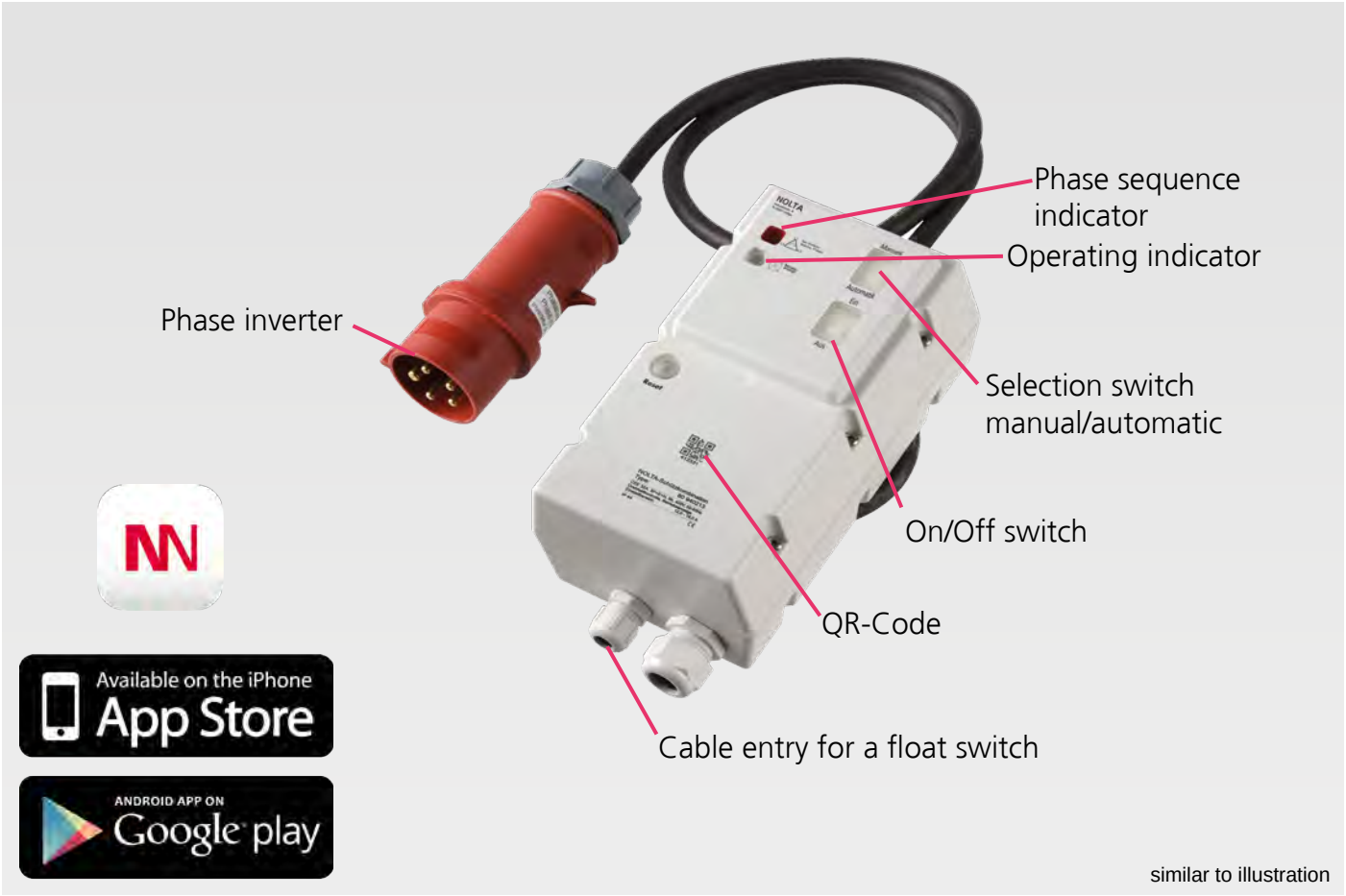


- Configuration of the device data as well as the digital inputs and push notifications
- User management
- License management
- Data export function



- Storage of all measurement data in the cloud
- Location function
- Freely configurable security zone
- Push notification when entering or leaving the security zone

Contactor combination with NOLTAnet



The NOLTA contactor combination has been specially designed for use in connection with portable, electric motor-driven apparatus, machines and devices and bundles the necessary protection and control technology for motors up to 15 kW in a compact, mobile housing. The contactor combination is available with a 32A CEE plug and thermal contact connection, phase inverter and rotating field control as well as an operating display can be integrated as options. A selector switch can be used to choose between manual and automatic mode so that the connected motor can be controlled via a level controller, for example. The integrated NOLTAnet module enables the operating status and hours of operation to be recorded, fault messages to be transmitted via push message and the device to be located.

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NOLTA Contactor combination with NOLTAnet

Available versions

Voltage Frequency	Plug Pins	Features	CEE 32A
400 V, 6h,	3L+N+P	Phase inverter + Phase sequence indicator	80 9401..
50-60 Hz	3L+N+P	Phase inverter + Phase sequence indicator + Operating indicator	80 9402..

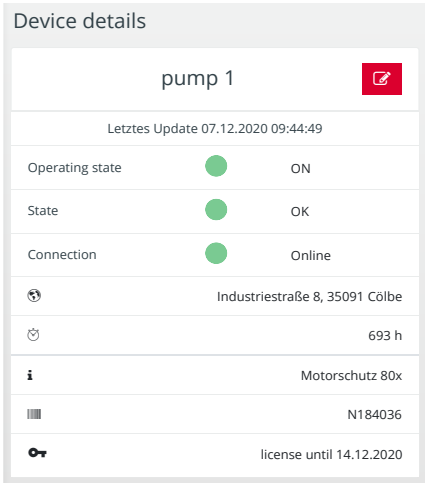
Technical data

Switch cycles	Max. 30 starts/h
Mech. Life span	10^7 switching cycles
Operating voltage	400 V AC
Nominal operating current	12A - 32A
Rated power AC3/400V	Max. 15 kW
Supply frequency	50 - 60 Hz
Temperature range	-25 - +50°C
Magn. Tripping	No
Therm. Tripping	Yes
Protection class	IP44
Supply	CEE-plug 16A / 32A
Cable entry	Motor: M 32 (11-21 mm) Control: M 16 (4,5 - 10 mm)
Connection cross-sections of the main conductors	1 - 10 mm² rigid/ 1 - 6 mm² flexible / 16 - 10 AWG
Housing	Polycarbonate (PC)
Dimensions	16A: 325 x 145 x 140 mm (L x W x H) 32A: 325 x 145 x 140 mm (L x W x H)
Weight	2.5 kg

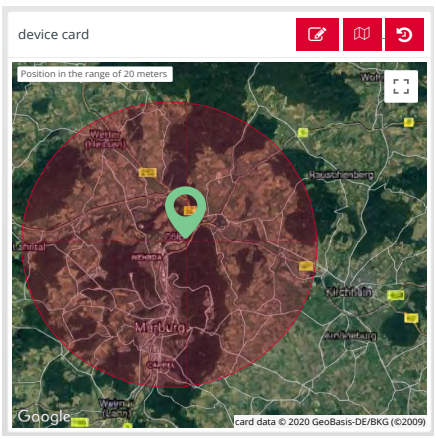
Adjustment range

Adjustment range	max. Back up fuse	Order-No. addition
12.00 - 18.00 A	35,0 A	..13
16.00 - 24.00 A	50,0 A	..14
23.00 - 32.00 A	63,0 A	..15

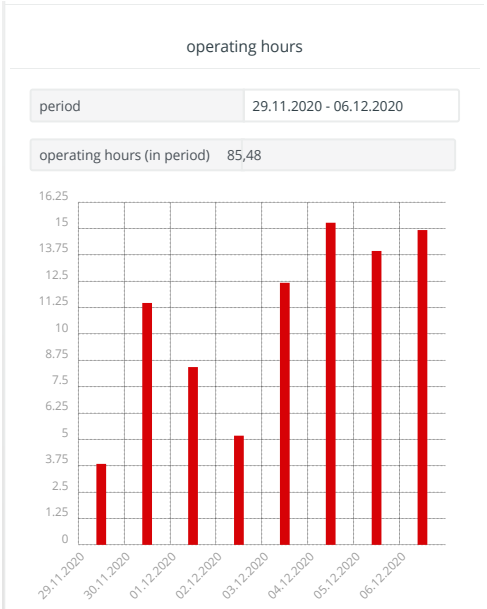
Configuration and monitoring via NOLTAnet app



- Overview of operating hours and operating status in a freely selectable time interval



- Configuration of the device data as well as the digital inputs and push notifications
- User management
- License management
- Data export function



- Storage of all measurement data in the cloud
- Location function
- Freely configurable security zone
- Push notification when entering or leaving the security zone

NOLTAnet AlarmBox

With the NOLTAnet AlarmBox, water levels can be monitored and messages can be sent via the NOLTAnet app if the water level is exceeded. The simple configuration via the NOLTAnet app enables alarms to be sent at minimum or maximum water levels. Depending on the selected version of the AlarmBox, it can be operated with a float switch or two level electrodes. The versions with level relay offer the option of operating the level electrodes or float switches with low voltage as well as galvanic separation of supply voltage and sensor voltage. The AlarmBox can be located via the NOLTAnet app and the operating hours are recorded.

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NOLTAnet AlarmBox

Available versions

Supply voltage	Features	Order number
230 V AC	power plug, float switch KR1	82 0430-09..
	power plug, level relay, float switch KR2	82 0431-4314..
	power plug, level relay, two level electrodes	82 0433-2701..

Technical data

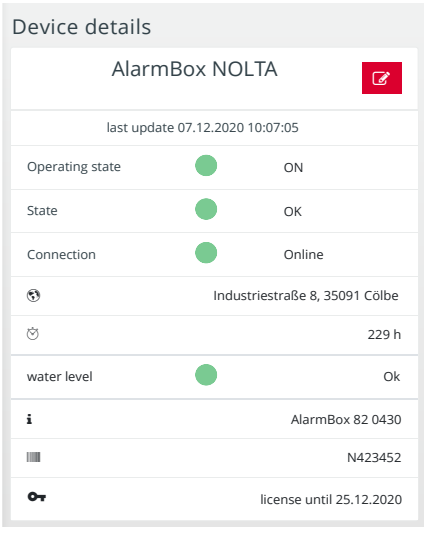
Operating voltage	230V AC
Connecting cable	H07RN-F 3G1 mm² x 2m with plug
Temperature range	-20°C - 50 °C
Ingress Protection Code	IP 66
Protection class	II
Housing	Polycarbonat (PC)
Dimensions (LxWxH):	151x121x60 mm
control voltage KR1	230V AC
control voltage KR2 and KS1	5V AC

Available cable length*

Cable length	Order number addition
10 m	..10
20 m	..20

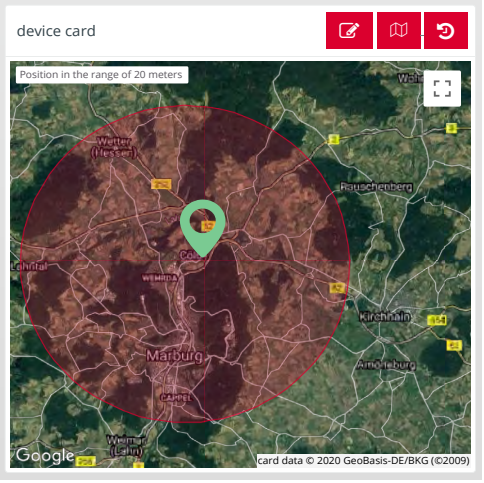
* further cable lengths on request

Configuration and monitoring via NOLTAnet app



- Configuration of the device data as well as the display texts and push-notifications texts
- Push notification in case of a level alarm
- User management
- License management
- Data export function
- Overview of operating hours and operating status in a freely selectable time interval
- Storage of all measurement data in the cloud

- Location function
- Freely configurable security zone
- Push notification when entering or leaving the security zone



NOLTAnet Tracker

similar to illustration

With the NOLTAnet Tracker, machines can be integrated into the NOLTAnet and thus monitored via the NOLTAnet app. The tracker has a digital input that can be used to record the operating hours and the operating status of the connected machine. In addition, the connected device can be located using the NOLTAnet tracker, and when entering or leaving a freely definable security zone, an alarm is sent via push message.

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NOLTAnet Tracker

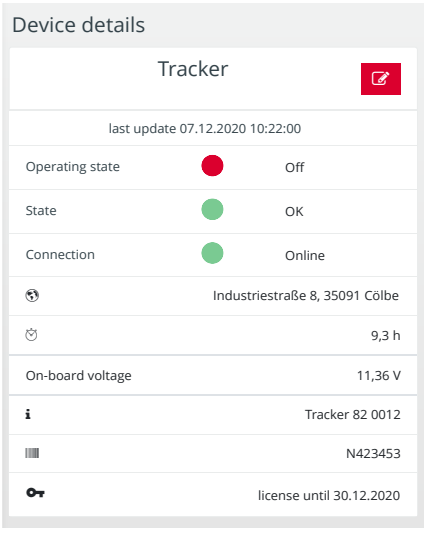
Available versions

Voltage	Features	Article number
12 V DC	1 operating hours counter input	82 0012

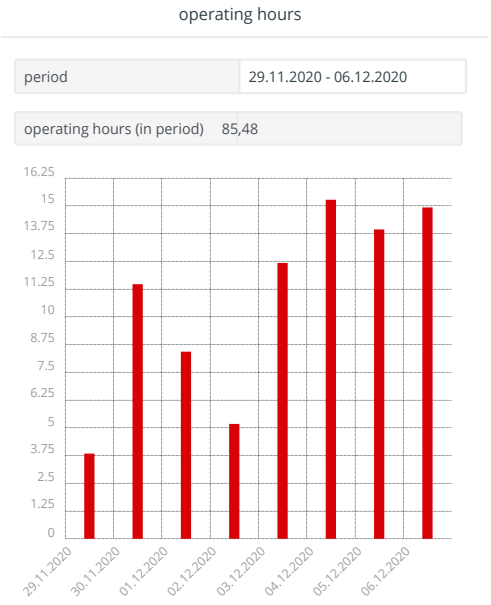
Technical data

Operating voltage	12V DC
Temperature range	-20°C - 50 °C
Ingress Protection Code	IP 65
Protection class	II
Pollution degree	2
Housing	ABS
Dimensions (LxWxH):	150x77x28 mm
Connecting cable	0.5m YSLY-OZ 3x0,75mm²

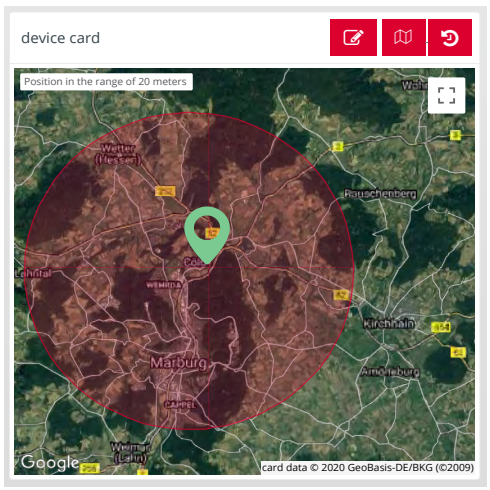
Configuration and monitoring via NOLTAnet app



- Configuration of the device data
- User management
- License management
- Data export function



- Overview of operating hours and operating status in a freely selectable time interval
- Storage of all measurement data in the cloud



- Location function
- Freely configurable security zone
- Push notification when entering or leaving the security zone

NOLTAnet SmartBox

similar to illustration

With the NOLTAnet SmartBox, machines, plants or similar systems can be integrated into the NOLTAnet and thus monitored via the NOLTAnet app. Depending on the version selected, the SmartBox has one or two digital inputs that must be connected to the device to be monitored. This can be used to monitor levels or switch positions of actuators or motor protection relays, for example. The inputs can be individually named and configured using the NOLTAnet app, and push notifications that can be specifically named are sent when the status of the input signal changes. In the version with operating hours counter, an input is configured as an operating hours counter and records the operating hours and the operating status as soon as an on signal is applied to the input. The location of the SmartBox is also possible.

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NOLTAnet SmartBox

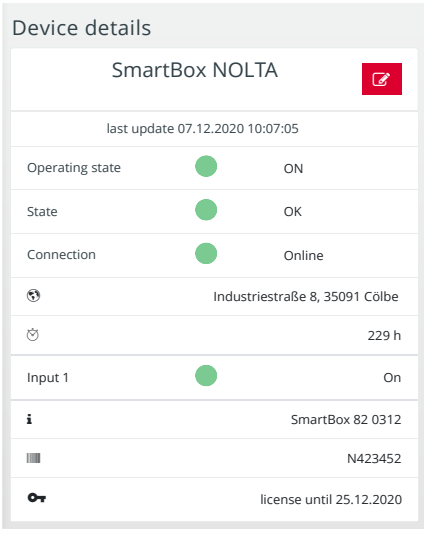
Available versions

voltage	inputs	Articlenumber
230 V AC	2 free configurable inputs (230 V AC)	82 0230
	1 free configurable input (230 V AC), 1 operating hours counter input (230 V AC)	82 0330
12 V DC	2 free configurable inputs (12 V DC)	82 0212
	1 free configurable input (12 V DC), 1 operating hours counter input (12 V DC)	82 0312

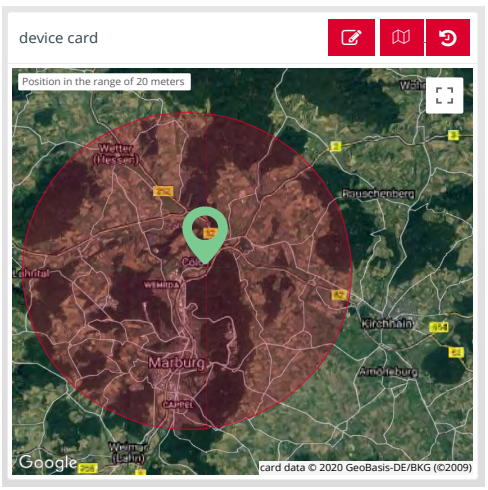
Technical data

Operating voltage	230V AC or 12V DC (different device types)
Temperature range	-20°C - 50 °C
Ingress Protection Code	IP 66
Protection class	II
Pollution degree	2
Housing	Polycarbonat (PC)
Dimensions (LxWxH):	100x110x44 mm
Connecting cable	2m YSLY-OZ 4x0,75mm²

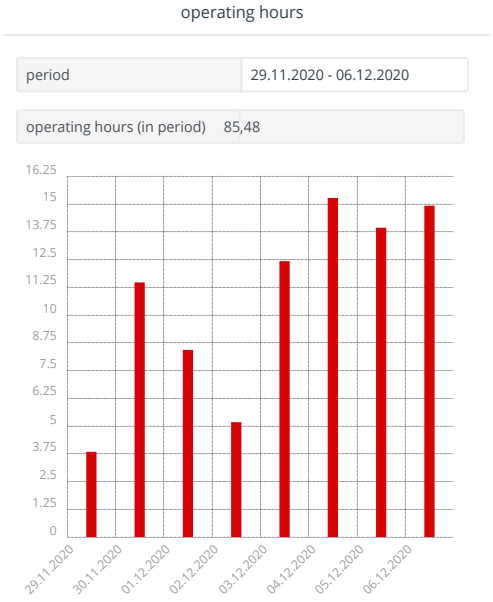
Configuration and monitoring via NOLTAnet app



- Overview of operating hours and operating status in a freely selectable time interval
- Storage of all measurement data in the cloud

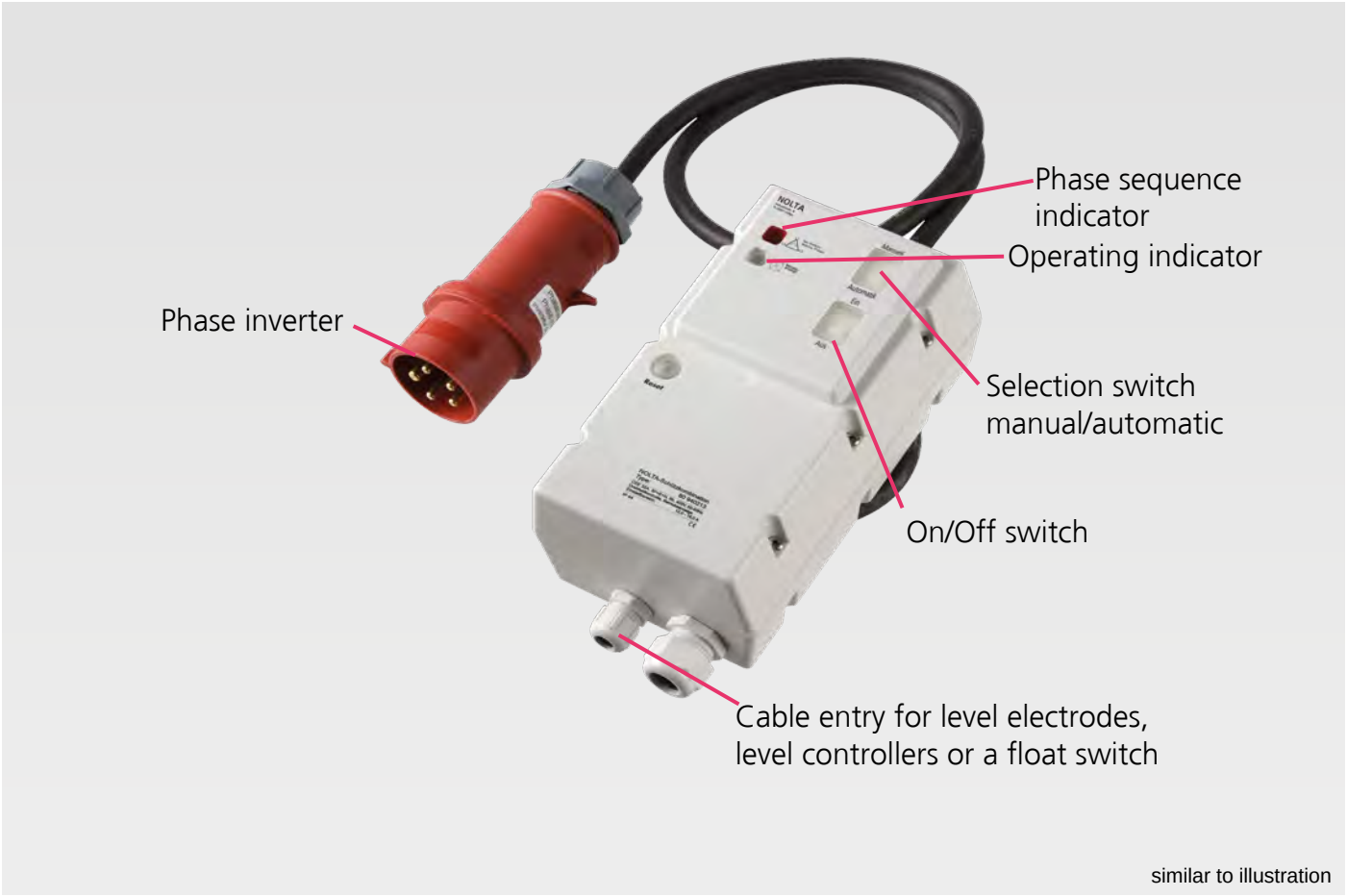


- Configuration of the device data as well as the digital inputs and push notifications
- User management
- License management
- Data export function



- Location function
- Freely configurable security zone
- Push notification when entering or leaving the security zone

Contactor combination with level relay



similar to illustration

The NOLTA contactor combination with level relay has been specially designed for use in connection with pumps. The combination of contactor, motor protection relay and level relay bundles the necessary protection technology with the control technology in a compact, mobile housing. With the integrated level relay, the connected pump can be controlled in automatic mode via level electrodes, level controllers or a float switch, the operating function can be switched between filling and emptying depending on the application. The connected sensors are operated with low voltage and are galvanically separated from the supply voltage.

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NOLTA Contactor combination with level relay

Available versions

Voltage Frequency	Plug Pins	Features	CEE 16 A	CEE 32 A
400 V, 6h, 50-60 Hz	3L+N+PE	Phase inverter + Phase sequence indicator	80 4601..	80 8601..
400 V, 6h, 50-60 Hz	3L+N+PE	Phase inverter + Phase sequence indicator + Operating indicator	80 4602..	80 8602..

Adjustment range

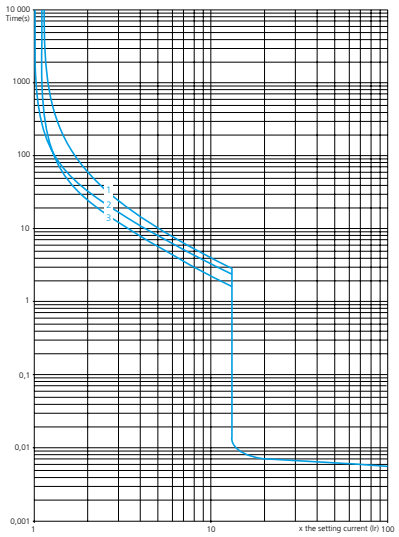
Adjustment range	max. Back up fuse	Order-No. addition
1.00 - 1.60 A	4,0 A	..06
1.60 - 2.50 A	6,0 A	..07
2.50 - 4.00 A	10,0 A	..08
4.00 - 6.00 A	16,0 A	..09
5.50 - 8.00 A	20,0 A	..10
7.00 - 10.00 A	20,0 A	..11
9.00 - 13.00 A	25,0 A	..12
12.00 - 18.00 A	35,0 A	..13*
16.00 - 24.00 A	50,0 A	..14*
23.00 - 32.00 A	63,0 A	..15*

* only available with CEE 32 A

Technical data

Switch cycles	Max. 30 starts/h
Mech. Life span	10^7 switching cycles
Operating voltage	400 V AC
Nominal operating current	1A - 32A
Rated power AC3/400V	Max. 15 kW
Supply frequency	50 - 60 Hz
Temperature range	-20 - +50°C
Magn. Tripping	No
Therm. Tripping	Yes
Motor protection tripping	See chart below
Protection class	IP44
Supply	CEE-plug 16A / 32A
Cable entry	M32 (11-21 mm), M 20 (2 (3) x 5 mm) / (2 x 6 mm)
Cross sections of the main conductors	1 - 10 mm² rigid/ 1 - 6 mm² flexible / 16 - 10 AWG
Housing	Polycarbonate (PC)
Dimensions	325 x 145 x 140 mm (L x W x H)
Weight	2.5 kg

Tripping characteristics



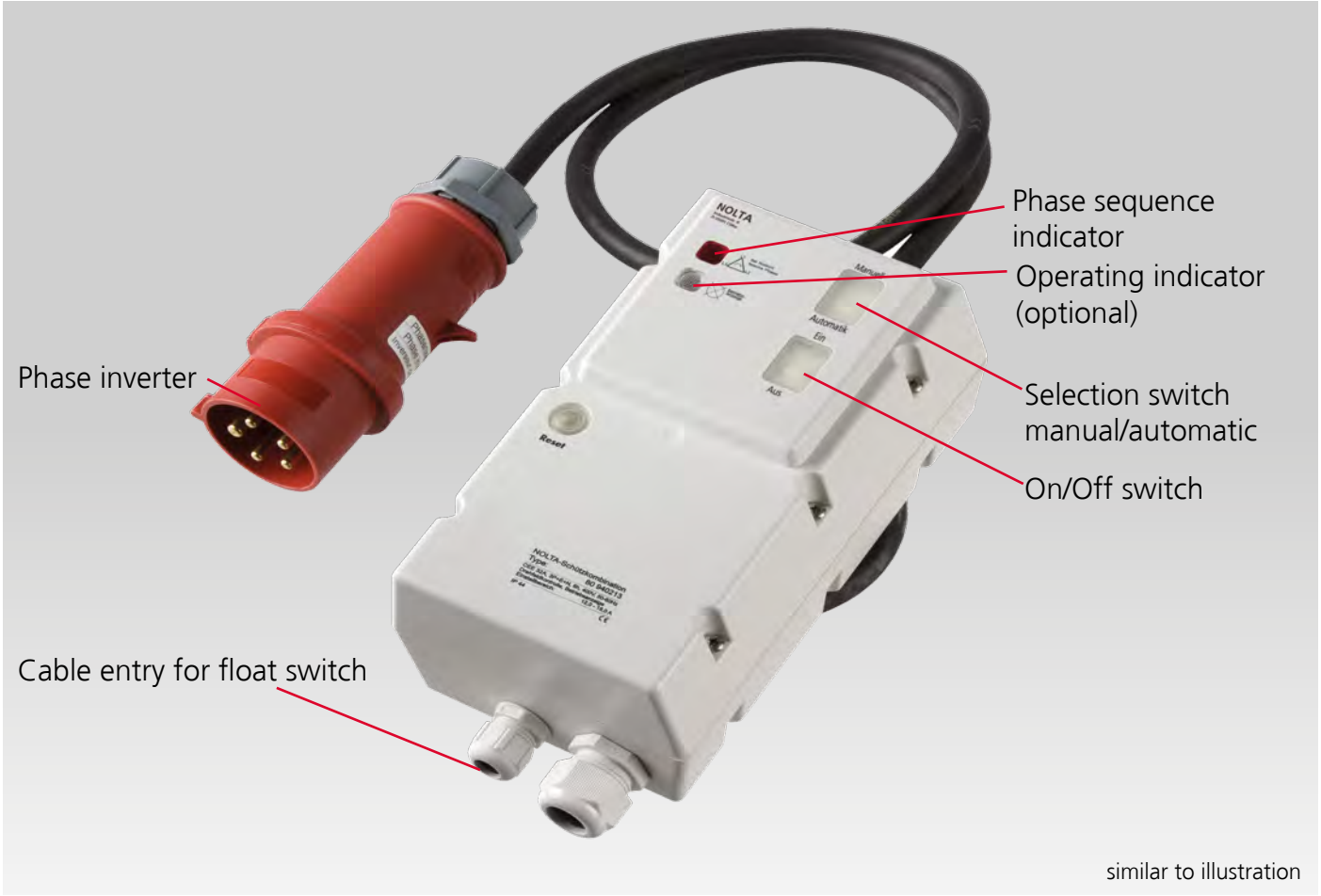
1 3 poles tfrom cold state
2 2 poles from cold state
3 3 poles from hot state

Equipment *

Article	Typ	Articlenumber
Level-controller MS1	MS1	40 0001..
Float switch KR2	KR2	43 0014..
Level-electrode KS1	Level-electrode without labeling	27 0001..
Level-electrode KS1 "min"	Level-electrode with labeling "min"	27 0001..-min
Level-electrode KS1 "max"	Level-electrode with labeling "max"	27 0001..-max

* further usable level controllers and possible cable lengths on request or at www.nolta.de

Conductor combination with PTC-Thermistor relay



similar to illustration

The NOLTA contactor combination has been specially designed for use in connection with portable, electric motor-driven apparatus, machines and devices and bundles the necessary protection and control technology for motors in a compact, mobile housing. The contactor combination is available with a 16A or 32A CEE plug, PTC thermistor relay, phase inverter and phase sequence indicator. In addition, operating indicator, restart interlock and leakage electronics can be integrated. A selector switch can be used to choose between manual and automatic mode so that the connected motor can be controlled, for example, via a float switch.
The integrated PTC thermistor relay enables the evaluation of PTC thermistors (PTC sensors according to DIN 44081 and DIN 44082) and reliably and effectively prevents dangerous overheating of the motor. As soon as the connected PTC thermistor even slightly exceeds a critical temperature value, the thermistor trips and causes the connected consumer to be switched off.

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Conductor combination with PTC-Thermistor relay

Available versions

Voltage Frequency	Plug Pins	Features	CEE 16 A	CEE 32 A
400 V, 6h, 50-60 Hz	3L+N+PE	Phase inverter + Phase sequence indicator + PTC thermistor relay	80 4301..	80 8301..
400 V, 6h, 50-60 Hz	3L+N+PE	Phase inverter + Phase sequence indicator + Operating indicator + PTC thermistor relay	80 4302..	80 8302..
400 V, 6h, 50-60 Hz	3L+N+PE	Phase inverter + Phase sequence indicator + Operating indicator + PTC thermistor relay + restart inhibit	80 4303..	80 8303..
400 V, 6h, 50-60 Hz	3L+N+PE	Phase inverter + Phase sequence indicator + Operating indicator + PTC thermistor relay + restart inhibit + leak monitoring	80 4304..	80 8304..

Adjustment range

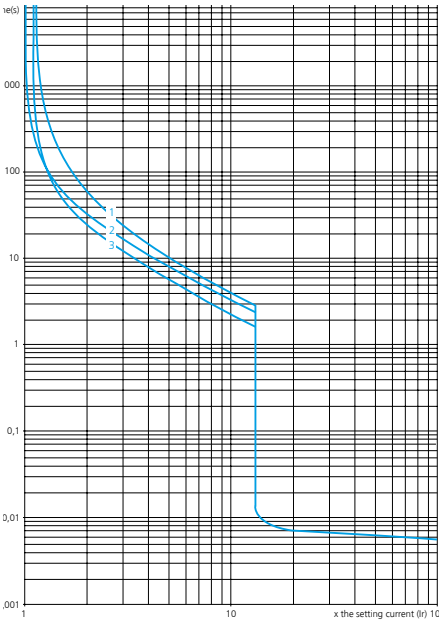
Adjustment range	max. Back up fuse	Order-No. addition
1.00 - 1.60 A	4,0 A	..06
1.60 - 2.50 A	6,0 A	..07
2.50 - 4.00 A	10,0 A	..08
4.00 - 6.00 A	16,0 A	..09
5.50 - 8.00 A	20,0 A	..10
7.00 - 10.00 A	20,0 A	..11
9.00 - 13.00 A	25,0 A	..12
12.00 - 18.00 A	35,0 A	..13*
16.00 - 24.00 A	50,0 A	..14*
23.00 - 32.00 A	63,0 A	..15*

* only available with CEE 32 A plug

Technical data switching device

Switch cycles	Max. 30 starts/h
Mech. Life span	10^7 switching cycles
Operating voltage	400 V AC
Nominal operating current	1A - 32A
Rated power AC3/400V	Max. 15 kW
Supply frequency	50 - 60 Hz
Temperature range	-20 - +50°C
Magn. Tripping	No
Therm. Tripping	Yes
Motor protection tripping	See tripping chart
Protection class	IP44
Supply	CEE-plug 16A / 32A
Cable entry	Motor: M 32 (11-21 mm) Control: M 16 (4,5 - 10 mm)
Cross sections of the main conductors	1 - 10 mm² rigid/ 1 - 6 mm² flexible / 16 - 10 AWG
Housing	Polycarbonate (PC)
Dimensions	325 x 145 x 140 mm (L x W x H)
Weight	2.5 kg

Tripping characteristics



3 poles tfrom cold state
2 poles from cold state
3 poles from hot state

Technical data PTC-Thermistor relay

Approved sensor types	PTC sensors according to DIN 44081 and DIN 44082
Terminals	P1 and P2
Number of PTC sensors	1 ... 6 PTC thermistors in series
Rated response temperature TFS	60 °C ... 180 °C
Tolerance of the system TFS	±6 °C
Collective resistance of the sensor loop	≤ 1,5 kΩ
Voltage in the sensor circuit	≤ 0,8 V at R ≤ 1,5 kΩ, ≥ 1 V at R = ∞
Sensor current	≤ 0,3 mA
Performance / burden	≤ 1 mW
Reset	automatically after cooling

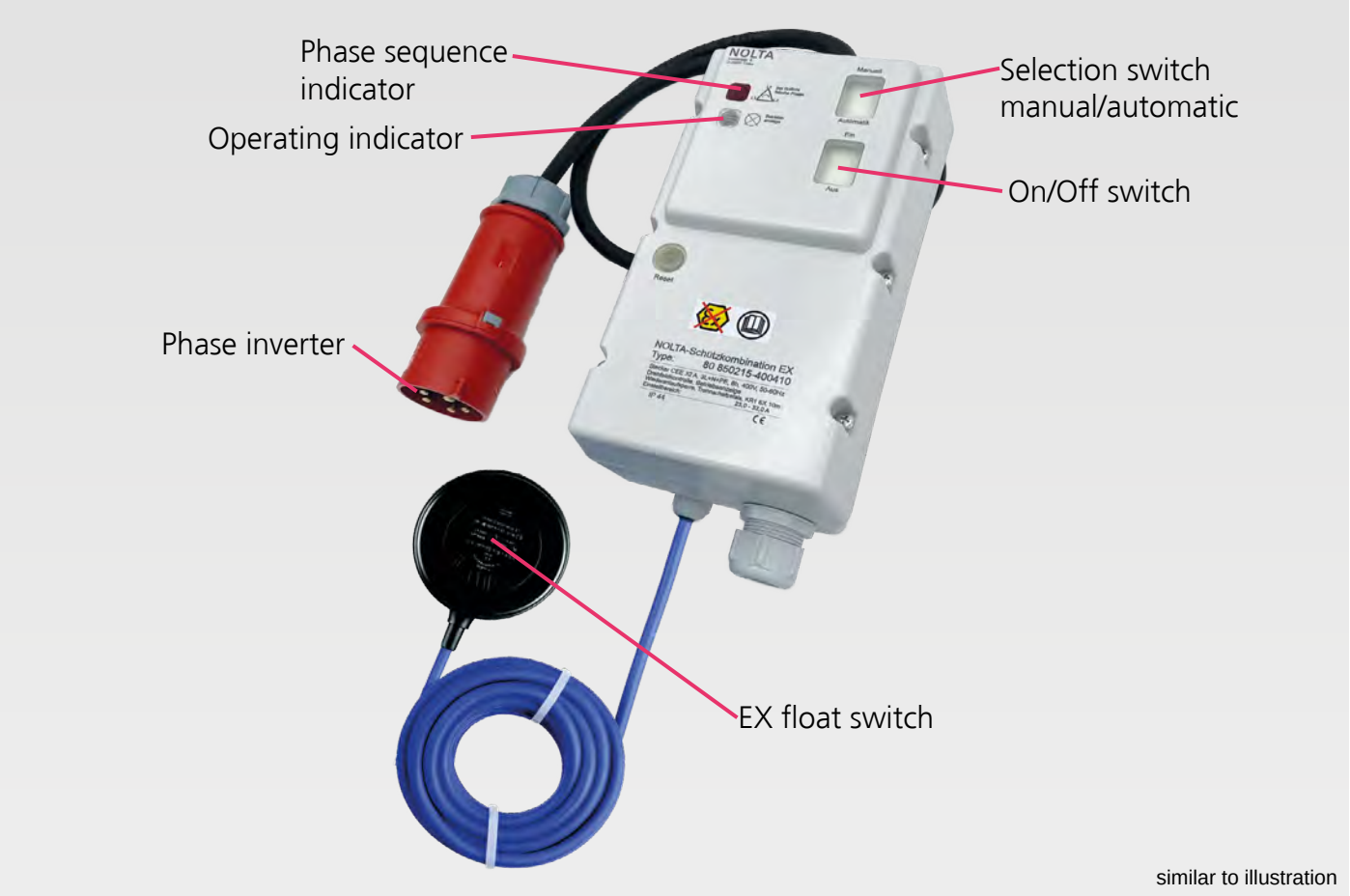
With integrated restart inhibit

In the event of an error (triggering of the motor protection, the PTC thermistor relay or the leakage electronics), the restart inhibit prevents automatic restart after the error has been rectified.
After an error has occurred and has been rectified, the electronics must first be reset using the on / off switch. It can then be switched on again.

With integrated leak monitoring

The leak monitoring detect leaks in the connected motor via a motor leak electrode and switch it off accordingly in the event of a fault.

Contactor combination EX



similar to illustration

The NOLTA contactor combination EX has been specially designed for use in connection with portable, electric motor-driven pumps for the EX area and bundles the necessary protection and control technology for motors up to 15 kW in a compact, mobile housing. Pumps in the ATEX area may be switched with the contactor combination EX, provided that the contactor combination EX itself is outside the ATEX zone; it must be ensured that the connected motor is suitable for operation within the ATEX zone. The contactor combination EX is equipped with a 16A or 32A CEE plug, phase inverter, phase sequence indicator, operating indicator, thermal contact connection as well as a restart inhibit. A selector switch can be used to choose between manual and automatic mode so that the connected motor can be controlled via a float switch approved for the EX area. The EX contactor combination is delivered from the factory with a connected EX float switch with a cable length that can be selected.

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Contactor combination EX

Available versions

Voltage Frequency	Plug Pins	Features	CEE 16 A	CEE 32 A
400 V, 6h, 50-60 Hz	3L+N+PE	Phase inverter + Phase sequence indicator + Operating indicator	80 4502..-4004..	80 8502..-4004..

Adjustment range

Adjustment range	max. Back up fuse	Order-No. addition
1.00 - 1.60 A	4,0 A	..06
1.60 - 2.50 A	6,0 A	..07
2.50 - 4.00 A	10,0 A	..08
4.00 - 6.00 A	16,0 A	..09
5.50 - 8.00 A	20,0 A	..10
7.00 - 10.00 A	20,0 A	..11
9.00 - 13.00 A	25,0 A	..12
12.00 - 18.00 A	35,0 A	..13
16.00 - 24.00 A	50,0 A	..14*
23.00 - 32.00 A	63,0 A	..15*

* only available with CEE 32 A

EX float switch*

Article	Cable type	Cable length	Order-No. addition
KR1 EX	TPK/TPE 4G0,75 mm2	10 m	..10
KR1 EX	TPK/TPE 4G0,75 mm2	20 m	..20

* further possible cable lengths on request or at www.nolta.de

Explanation of the order number:

Composition: Basic order number + addition for adjustment range + addition for EX float switch.
Example for 16 A CEE, adjustment range 9 - 13 A and float switch with 10 m cable:

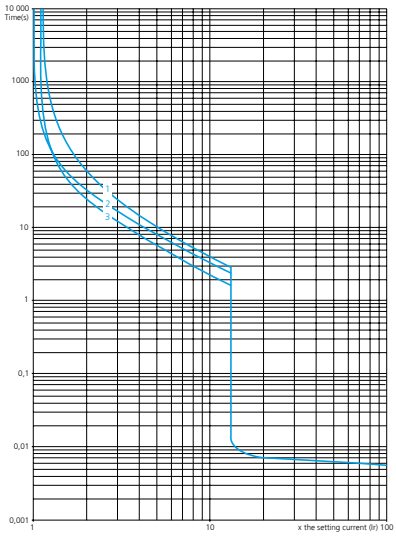
80 4502**12**-4004**10** — **Cable length EX float switch**

Adjustment range motor protection

Technical data

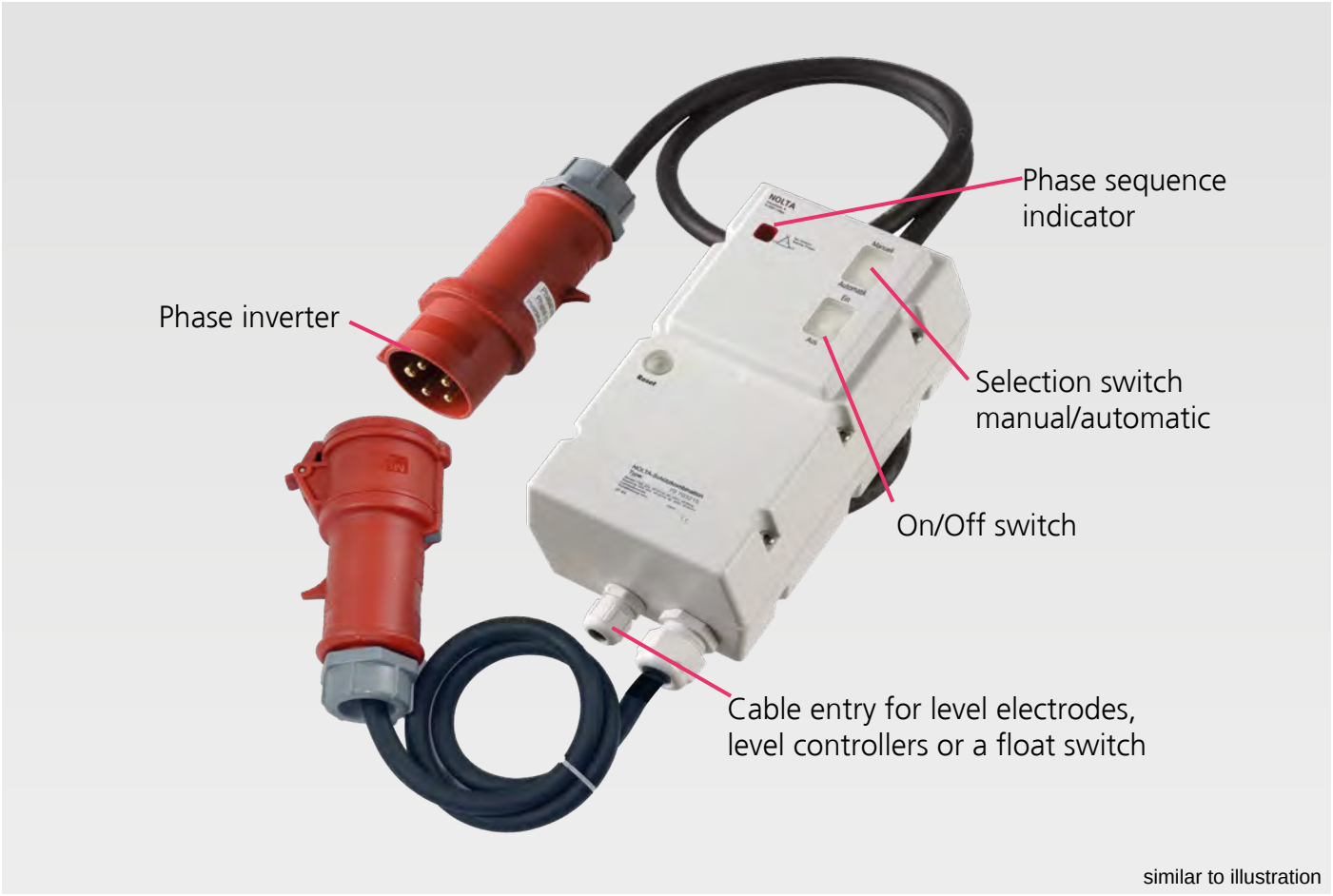
Switch cycles	Max. 30 starts/h
Mech. Life span	10^7 switching cycles
Operating voltage	400 V AC
Nominal operating current	1A - 32A
Rated power AC3/400V	Max. 15 kW
Supply frequency	50 - 60 Hz
Temperature range	-25 - +50°C
Magn. Tripping	No
Therm. Tripping	Yes
Motor protection tripping	See tripping chart
Protection class	IP44
Supply	CEE-plug 16A/32A
Cable entry	Motor: M 32 (11-21 mm) Control: M 20 (6 - 12 mm)
Cross sections of the main conductors	1 - 10 mm² rigid/ 1 - 6 mm² flexible / 16 - 10 AWG
Housing	Polycarbonate (PC)
Dimensions	325 x 145 x 170 mm (L x W x H)
Weight	approx. 3 kg

Tripping characteristics



1 3 poles tfrom cold state
2 2 poles from cold state
3 3 poles from hot state

Level control



- **Insertable level control for the operation of pumps up to max. 18.5 kW**
- **Easy to retrofit**
- **Can be combined with level electrodes, level controllers or a float switch**
- **Version with level relay offers the option of operating the level electrodes or level controllers with low voltage**
- **The supply voltage and sensor voltage are galvanically separated from each other in the version with level relay**
- **Manual / automatic mode**

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Level control

Available versions

Voltage Frequency	Plug Pins	Features	CEE		
			16 A (7,5 kW)	32 A (15 kW)	63 A (18,5 kW)
400 V, 6h, 50-60 Hz	3L+N+PE	Phase inverter + Phase sequence indicator + Level relay	70 701611	70 703215	70 706318
400 V, 6h, 50-60 Hz	3L+N+PE	Phase inverter + Phase sequence indicator	70 711611*	70 713215*	70 716318*

*can only be combined with float switch KR1

The NOLTA level control has been specially designed for use in connection with pumps. With the plugable level control, an existing system consisting of a motor protection plug and pump or a pump with integrated motor protection can be controlled in a few simple steps using level electrodes, level controllers or a float switch.
The version with level relay offers the possibility of operating the level electrodes or level controller with low voltage as well as galvanic separation of supply voltage and sensor voltage.

Technical data

Switch cycles	Max. 30 starts/h
Mech. life span	10^7 switching cycles
Operating voltage	400 V AC
Operating current	16A / 32A /38A
Rated power AC3/400V	Max. 7,5kW / 15kW / 18,5kW
Supply frequency	50 - 60 Hz
Temperature range	-20 - +50°C
Protection class	IP44
Supply	CEE-plug 16A / 32A /63A
Consumer connection	CEE-connector 16A / 32A / 63A
Cable entry	M20 with sealing insert (2 (3) x 5 mm) or (2 x 6 mm)
Connection for:	1 x external switching contact
Level relay with connection for	1 x float switch KR2 or 2 x level controller MS1 / M2 or 2 (3) x level elektrode KS1
Housing	Polycarbonate (PC)
Dimensions	325 x 145 x 140 mm (L x W x H)
Weight	approx. 3 kg / 3,5 kg / 4 kg

Equipment *

Article	Typ	Articlenumber
Level-controller MS1	MS1	40 0001..
Float switch KR1	KR1	40 0020..
Float switch KR2	KR2	43 0014..
Level-electrode KS1	Level-electrode without labeling	27 0001..
Level-electrode KS1 "min"	Level-electrode with labeling "min"	27 0001..-min
Level-electrode KS1 "max"	Level-electrode with labeling "max"	27 0001..-max

* further usable level controllers and possible cable lengths on request or at www.nolta.de

NOLTA single-pump control

Abbildung ähnlich

- **Pump control for the operation of one pump up to a maximum of 5.5 kW**
- **Robust housing for wall mounting**
- **Can be combined with level electrodes, level controllers or a float switch**
- **Version with level relay offers the option of operating the level electrodes or level controller with low voltage**
- **The supply voltage and sensor voltage are galvanically separated from each other in the version with level relay**
- **Manual / automatic mode**
- **Operating display**

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NOLTA single-pump control

Available versions

Voltage Frequency	Features	Articlenumber
3-phase, 400 V, 50-60 Hz	mainswitch, manually-0-auto-switch, contactor, bimetal relay, operating indicator	60 00..
3-phase, 400 V, 50-60 Hz	mainswitch, manually-0-auto-switch, contactor, bimetal relay, operating indicator, level relay	60 01..
3-phase, 400 V, 50-60 Hz	mainswitch, manually-0-auto-switch, contactor, bimetal relay, operating indicator, level relay, operating hours counter	60 02..

The NOLTA single-pump control has been specially designed for use in connection with pumps and bundles the necessary protection and control technology for motors up to 5.5 kW in a compact, robust housing for wall mounting. A manual-0-automatic switch can be used to switch between manual and automatic operation. Depending on the selected device version, the pump control can be activated in automatic mode via float switches or level electrodes. The version with level relay offers the option of operating the level electrodes or level controller with low voltage as well as galvanic separation of supply voltage and sensor voltage.

Technical data

Switch cycles	Max. 30 starts/h
Mech. life span	10^7 switching cycles
Operating voltage	400 V AC
Operating current	1,8 A - 14 A
Rated power AC3/400V	Max. 5,5kW
Supply frequency	50 - 60 Hz
Temperature range	-20 - +50°C
Magn. Tripping	No
Therm. Tripping	Yes
Protection class	IP44
Cable entry	2 x M32 (11-21 mm) 4 x M16 (4-10 mm)
Connection for:	1 x thermal contact switch
Level relay with connection for	1 x float switch KR2 oder 2 x level controller MS1 / M2 oder 2 (3) x level elektrode KS1
Connection cross-sections of the main conductors	Spring-loaded terminal / finely stranded 1x 0.5 ... 4 mm² Spring-loaded terminal / rigid 1x 0.5 ... 6 mm²
Housing	ABS
Dimensions	264 x 264 x 124 mm (L x W x H)
Weight	1.5 kg

Adjustment range

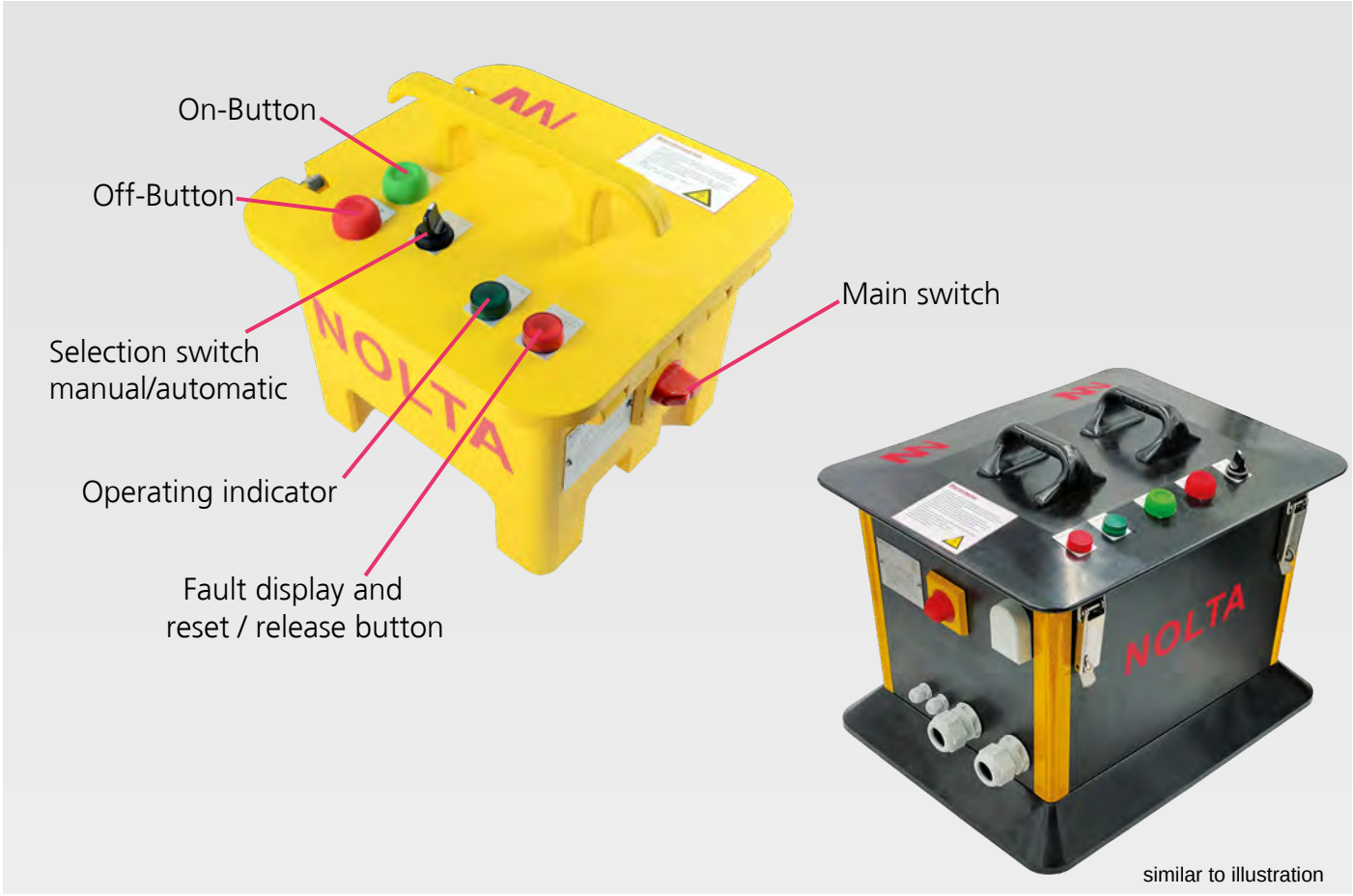
Adjustment range	Article-No. addition
1.20 - 1.80 A	..06
1.80 - 2.60 A	..07
2.60 - 3.70 A	..08
3.70 - 5.50 A	..09
5.50 - 8.00 A	..10
8.00 - 11.50 A	..11
10.50 - 14.00 A	..12

Equipment *

Article	Typ	Articlenumber
Level-controller MS1	MS1	40 0001..
Float switch KR1	KR1	40 0020..
Float switch KR2	KR2	43 0014..
Level-electrode KS1	Level-electrode without labeling	27 0001..
Level-electrode KS1 "min"	Level-electrode with labeling "min"	27 0001..-min
Level-electrode KS1 "max"	Level-electrode with labeling "max"	27 0001..-max

* further usable level controllers and possible cable lengths on request or at www.nolta.de

Automatic star-delta starter



- **Automatic changeover from star to delta after an adjustable time**
- **Integrated thermal-magnetic motor protection**
- **Thermal contact connection (bi-metal)**
- **Manual / automatic mode can be easily switched using a selector switch**
- **2 level controllers, 2(3) level electrodes or a float switch connectable**
- **Operating indicator and phase-control**
- **Shutdown of the consumer in the event of a phase error**
- **It is not possible to start the consumer with a left rotating field**
- **Mobile and easy to transport**
- **Good visibility through signal housing**

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Automatic star-deta starter

Available versions

Automatic star-delta starter		Articlenumber 70 6100..	housing color
Adjustment range motor protection	13,00 - 18,00 A	..32	yellow
	17,00 - 23,00 A	..33	
	20,00 - 25,00 A	..34	
	24,00 - 32,00 A (rated current max. 29 A)	..35	
	30,00 - 40,00 A	..36	black
	37,00 - 50,00 A	..37	
	48,00 - 65,00 A (rated current max. 63 A)	..38	

The automatic star-delta starter is specially designed for use in connection with pumps. This enables motors up to max. 15 kW can be started whose direct start is not permitted. In automatic mode, the device can be controlled either via a level controller, level electrodes or a float switch An integrated motor protection (thermal / magnetic) as well as the possibility to connect a thermal monitor protect the system from defects. The integrated supply voltage monitoring signals phase errors and phase sequence errors and switches off the connected consumer in the event of an error or prevents the consumer from starting when the rotating field is left.

Technical data

Up to 15 kW:

Switch cycles	Max. 20 starts/h
Operating voltage	400 V AC
Nominal operating current	Max. 29 A
Rated power AC3/400V	Max. 15 kW
Supply frequency	50 - 60 Hz
Temperature range	-20 ... +60°C
Protection class	IP44
Therm. Tripping	Yes
Magn. Tripping	Yes
Cable glands (2x each)	PG 29 (13-20 mm), M16 (4-10 mm)
Cross sections of the main conductors	0,5 - 10 mm² rigid/ 0,5 - 10 mm² flexible / 20 - 8 AWG
Housing	Solid rubber, Signal yellow RAL 1003
Dimensions	360 x 340 x 330 mm (L x W x H incl. handle)
Weight	approx. 10 kg

From 15 kW:

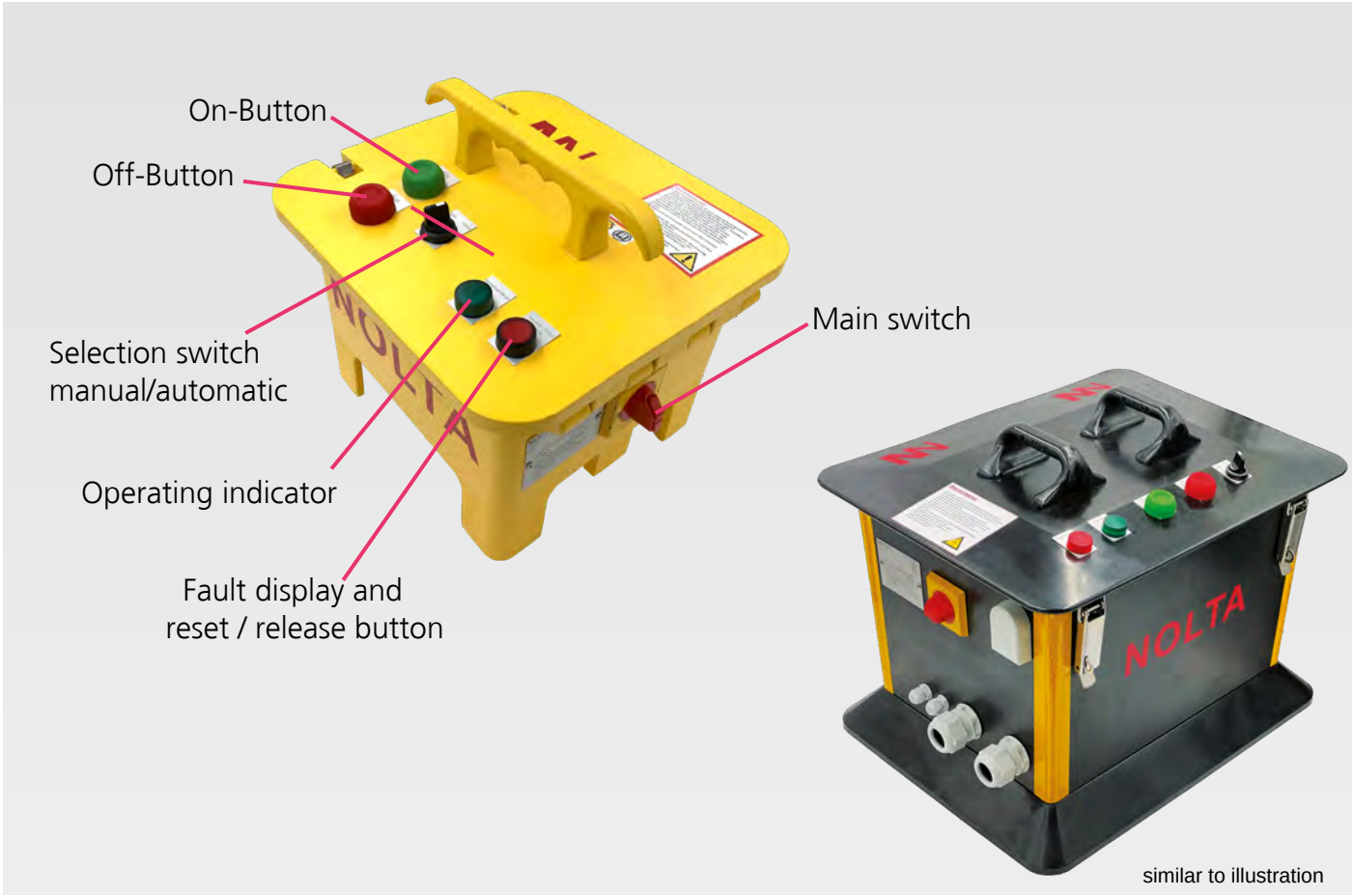
Switch cycles	Max. 20 starts/h
Operating voltage	400 V AC
Operating current	Max. 63A
Rated power AC3/400V	Max. 32 kW
Supply frequency	50 - 60 Hz
Temperature range	-20 - +60°C
Protection class	IP44
Therm. Tripping	Yes
Magn. Tripping	Yes
Cable glands (2x each)	M 40 (19-28 mm), M16 (4-10 mm)
Cross sections of the main conductors	0,5 - 10 mm² rigid/ 0,5 - 16 mm² flexible / 20 - 8 AWG
Housing	Solid rubber, black
Dimensions (L x W x H incl. handle)	565 x 450 x 460 mm
Weight	24.5 kg

Equipment *

Article	Typ	Articlenumber
Level-controller MS1	MS1	40 0001..
Float switch KR2	KR2	43 0014..
Level-electrode KS1	Level-electrode without labeling	27 0001..
Level-electrode KS1 "min"	Level-electrode with labeling "min"	27 0001..-min
Level-electrode KS1 "max"	Level-electrode with labeling "max"	27 0001..-max
Connection-set	CEE 32A H07RN-F5G4 3m	03 3203-4
Connection-set	CEE 32A H07RN-F5G6 3m	03 3203-6
Connection-set	CEE 63A H07RN-F5G6 3m	03 6303-6
Connection-set	CEE 63A H07RN-F5G10 3m	03 6303-10
Connection-set	CEE 63A H07RN-F5G16 3m	03 6303-16

* further usable level controllers and possible cable lengths on request or at www.nolta.de

Automatic star-delta starter EX



- **Automatic changeover from star to delta after an adjustable time**
- **Integrated thermal-magnetic motor protection**
- **Thermal contact connection (bi-metal)**
- **Manual / automatic mode can be easily switched using a selector switch**
- **2 EX level controllers, 3 EX level electrodes or a EX float switch connectable**
- **Integrated barrier for galvanic separation of the sensor circuits**
- **Operating indicator and fault display**
- **Shutdown of the consumer in the event of a phase error**
- **It is not possible to start the consumer with a left rotating field**

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Automatic star-deta starter EX

Available versions

Automatic star-delta starter EX		for connecting 2 EX level regulators or an EX float switch **Articlenumber 70 6200..**	for connecting 3 EX level sensors, 2 EX level controllers or an EX float switch **Articlenumber 70 6201..**	housing color
Adjustment range motor protection	13,00 - 18,00 A	..32	..32	yellow
	17,00 - 23,00 A	..33	..33	
	20,00 - 25,00 A	..34	..34	
	24,00 - 32,00 A (rated current max. 29 A)	..35	..35	
	30,00 - 40,00 A	..36	..36	black
	37,00 - 50,00 A	..37	..37	
	48,00 - 65,00 A (rated current max. 63 A)	..38	..38	

The automatic star-delta starter EX is specially designed for use in connection with pumps for the EX area. This allows pumps to be switched in the ATEX area, provided that the automatic star-delta starter EX itself is outside the ATEX zone; it must be ensured that the connected pump is suitable for operation within the ATEX zone. In automatic mode, the device can be controlled either via an EX level controller, EX level electrodes or an EX float switch. An integrated motor protection switch and the option to connect a thermal monitor protect the system from defects. The integrated supply voltage monitoring signals phase errors as well as phase sequence errors and switches off the connected consumer in the event of an error or prevents the consumer from starting when the rotating field is left.

Technical data

Up to 15 kW:

Switch cycles	Max. 20 starts/h
Operating voltage	400 V AC
Nominal operating current	Max. 29 A
Rated power AC3/400V	Max. 15 kW
Supply frequency	50 - 60 Hz
Temperature range	-20 ... +60°C
Protection class	IP44
Therm. Tripping	Yes
Magn. Tripping	Yes
Cable glands (2x each)	PG 29 (13-20 mm), M16 (4-10 mm)
Cross sections of the main conductors	0,5 - 10 mm² rigid/ 0,5 - 10 mm² flexible / 20 - 8 AWG
Housing	Solid rubber, Signal yellow RAL 1003
Dimensions	360 x 340 x 330 mm (L x W x H incl. handle)
Weight	approx. 10 kg

From 15 kW:

Switch cycles	Max. 20 starts/h
Operating voltage	400 V AC
Operating current	Max. 63A
Rated power AC3/400V	Max. 32 kW
Supply frequency	50 - 60 Hz
Temperature range	-20 - +60°C
Protection class	IP44
Therm. Tripping	Yes
Magn. Tripping	Yes
Cable glands (2x each)	M 40 (19-28 mm), M16 (4-10 mm)
Cross sections of the main conductors	0,5 - 10 mm² rigid/ 0,5 - 16 mm² flexible / 20 - 8 AWG
Housing	Solid rubber, black
Dimensions	565 x 450 x 460 mm (L x W x H incl. handle)
Weight	approx. 24.5 kg

Equipment *

Article	Typ	Articlenumber
Level-controller MS1 EX	MS1 EX	40 0002..
Level-controller MS1 EX C	MS1 EX C	41 0015..
Float switch KR1 EX	KR1 EX	40 0004..
Connection-set	CEE 32A H07RN-F5G4 3m	03 3203-4
Connection-set	CEE 32A H07RN-F5G6 3m	03 3203-6
Connection-set	CEE 63A H07RN-F5G6 3m	03 6303-6
Connection-set	CEE 63A H07RN-F5G10 3m	03 6303-10
Connection-set	CEE 63A H07RN-F5G16 3m	03 6303-16

* further usable level controllers and possible cable lengths on request or at www.nolta.de

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