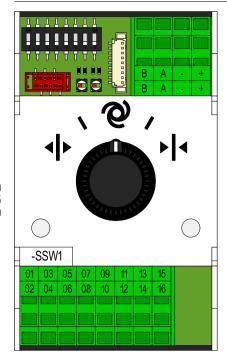
Image



Smartswitch 11-5092b[02]_5 20800000

Connection data

| + | DC24V [+] | Power supply DC24V [+] |
|---|-----------|-----------------------------|
| + | DC24V [+] | Power supply DC24V [+] |
| - | DC24V [-] | Power supply DC24V [-] |
| - | DC24V [-] | Power supply DC24V [-] |
| Α | RS485 [A] | Communication bus RS485 [A] |
| Α | RS485 [A] | Communication bus RS485 [A] |
| В | RS485 [B] | Communication bus RS485 [B] |
| В | RS485 [B] | Communication bus RS485 [B] |

| 01 | VCOM | Common relay outputs |
|----|--------|--|
| 02 | VCOM | Common relay outputs |
| 03 | VCOM | Common relay outputs |
| 04 | VCOM | Common limit switches |
| 05 | OUT_OP | Output relay 1[contactor device open] |
| 06 | LS_OP | Input limit switch opened |
| 07 | OUT_CL | Output relais 2 [contactor device close] |
| 08 | LS_CL | Input limit switch closed |
| 09 | OUT_EM | Output [contactor device emergency] |
| 10 | LS_EM | Input limit switches emergency |
| 11 | IN_D1 | Input digital 1 |
| 12 | NA | Not available |
| 13 | NA | Not available |
| 14 | NA | Not available |
| 15 | GND | GND measurements [IN_D1], [IN_D2] |
| 16 | NA | Not available |

Commercial data

| Product code | 20800000 |
|----------------------|--|
| Product description | Smartswitch 11-5092b[02]_5 Ventilation top |
| Packing unit | 1 |
| Weight | 0.121 [kg] |
| Custom tariff number | 8537.10.91 |
| Country of origin | NL (Netherlands) |

Dimensions

| Width | 53.60 [mm] |
|--------|------------|
| Height | 89.60 [mm] |
| Depth | 81.00 [mm] |

Standards and regulations

| EMC | Conformance with EMC directive 2014/30/EU |
|------|--|
| RoHS | Conformance with RoHS directive 2011/65/EU |
| WEEE | Conformance with WEEE directive 2002/96/EC |

Connection data, details

| + | DC24V [+] | Terminal power supply DC24V of Smartswitch, polartity [PLUS]. The free [PLUS] [+] terminal can be used to supply power to a conterminous Smartswitch. |
|---|------------|--|
| + | | The free [1 200] [-] terminal damps about to supply porter to a contemnious entarternion. |
| - | DC24V [-] | Terminal power supply DC24V of Smartswitch, polarity [MN]. The free [MN] [-] terminal can be used to supply power to a conterminous Smartswitch. |
| - | DO24V [-] | The first [mm][] formula data a data a dappy parts to a dollar minda a mail to mail. |
| Α | RS485 [A] | Terminal RS485 communication bus, signal line [A]. |
| Α | 110400[A] | |
| В | RS485 [B] | Terminal RS485 communication bus, signal line [B]. |
| В | 110400 [0] | |

| 01 | | Terminal P-contacts of relays. Connect desired voltage type that has to be switched; DC24V [+], or AC24V [P]. |
|----|------|--|
| 02 | VCOM | Common desired voltage type matrials to be smithing, 2024 v [+], or 7624 v [+], |
| 03 | | |
| 04 | VCOM | Terminal common for limit switches. |

| 06 | LS_OP | Input for limit switch contact [NC], that detects that the driving mechanism of a top ventilation motor is situated in the fully opened position. Limit switch contacts are powered from a terminal [VCOM]. |
|----|-------|--|
|----|-------|--|

| 08 | LS CL | Input for limit switch contact [NC], that detects that the driving mechanism of a top ventilation motor is situated in the fully closed position. Limit switch contacts are powered from a terminal [VCOM]. |
|----|-------|--|
|----|-------|--|

| ventilation motor has e ventilation motor has e Multiple emergency sw | vitch contact [NC], that detects that the driving mechanism of a top xceeded the position defined by a limit switch. itch contacts are to be connected in series with each other. tacts are powered from a terminal [VCOM]. |
|---|---|
|---|---|

| 05 | OUT_OP | Relay contact for switching the power stage [OPEN] of a top ventilation motor. The relay contact switches what is provided on the terminal(s) [VCOM]. |
|----|--------|---|

| | 07 | OUT_CL | Relay contact for switching the power stage [CLOSE] of a top ventilation motor. The relay contact switches what is provided on the terminal(s) [VCOM]. |
|--|----|--------|--|
|--|----|--------|--|

| 11 | IN_D1 | Digital input for dry contact [NC], that when opened will raise an alarm [PKZM] in the control. An alarm is raised, the control stays active. |
|----|-------|--|
| 15 | GND | When not used interconnect [11] and [15]. |

| \ | Project name: | 20800000DSH010 | 044 Smartswitch 11-5092b[02]_5 Ventilatio | on top | | | |
|----------|---------------|----------------|---|----------------|------------|---------|------|
| | Product code: | 20800000 | | | | | |
| PIDDER | | | | Initial date: | 01/01/2019 | Author: | MBL |
| AVAIDUEN | | | | Revision date: | 01/01/2019 | Page:1 | of 2 |

Ambient conditions

| Degree of protection | IP20 | |
|---|------------|------------|
| Ambient temperature (operation) | -1050 [°C] | 14122 [°F] |
| Ambient temperature (storage/transport) | -2050 [°C] | -4122 [°F] |
| Permissible humidity (operation) 2085 [%] | | |
| Permissible humidity (storage/transport) | 2085 [%] | |

Terminal data

| Conductor cross section solid min. | 0.2 [mm²] |
|---------------------------------------|-----------|
| Conductor cross section solid max. | 2.5 [mm²] |
| Conductor cross section flexible min. | 0.2 [mm²] |
| Conductor cross section flexible max. | 2.5 [mm²] |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 14 |

General

| Mounting type | DIN rail mounting according to EN 60715 |
|---------------|---|

Supply voltage

| Power supply | DC24V |
|-------------------------------|---------------------------------|
| Current consumption typically | ≤ 50 [mA], at DC24V, at 25 [°C] |

Data interface

| Interface 1 | RS485 |
|---------------------|-------------------------------------|
| Connection method | Spring-cage connection |
| Transmission medium | 2-wire Twisted-Pair + signal ground |
| Transmission length | 500 [m] |
| Transmission speed | 115.2 [kBit/s] |

Relay output

| Numbe | er of outputs | 2 |
|--------|-------------------|-------------------------|
| Conta | ct configuration | Normally open contact |
| Switch | ning voltage max. | 24 [V], AC/DC |
| Switch | ning current max. | 1[A], bij 24 [V], AC/DC |
| Servic | e life electrical | 10^5 operations |

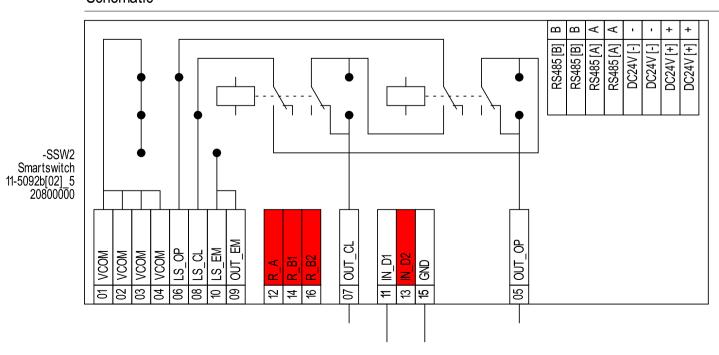
Notification

| Location | LED status | Status Smartswitch control |
|----------|--------------------|--|
| PCB [1] | Green continuously | Smartswitch connection with touchscreen controller is active. Smartswitch control is inactive. |
| | Green blinking | Smartswitch connection with touchscreen controller is active. Smartswitch control is active. Smartswitch control alarm status is inactive. |
| | Red continuously | Smartswitch connection with touchscreen controller is inactive. Smartswitch control is inactive. |
| | Red blinking | Smartswitch connection with touchscreen controller is active. Smartswitch control is active. Smartswitch control alarm status is active. |

| Location | LED status | Status bus communication |
|----------|----------------|---|
| PCB [2] | Green blinking | Smartswitch is receiving data over the bus [Rx]. |
| | Red blinking | Smartswitch is transmitting data over the bus [Tx]. |

| Location | LED status | Status device control |
|-------------------|--------------------------------|--|
| Rotary switch [1] | Green continuously | The control [open] is currently active. The connected device is being opened. |
| | Green blinking (5x) | The limit switch contact [open] is activated. The connected device has reached the end position of the [open] control. |
| | Green blinking (persistant) | The emergency contact has been activated during the [open] control. The connected device has exceeded the limit switch contact [open] position, and is in the status malfunction. |
| | Red continuously | The control [close] is currently active. The connected device is being closed. |
| | Red blinking (5x) | The limit switch contact [closed] is activated. The connected device has reached the end position of the [close] control. |
| | Red blinking (persistant) | The emergency contact has been activated during the [close] control. The connected device has exceeded the limit switch contact [closed] position, and is in the status malfunction. |

Schematic



| \ | Project name: | 20800000DSH010 044 Smartswitch 11-5092b[02]_5 Ventilation top | | | | | |
|--------|---------------|---|--|----------------|------------|---------|------|
| | Product code: | 20800000 | | | | | |
| RIDDER | | | | Initial date: | 01/01/2019 | Author: | MBL |
| | | | | Revision date: | 01/01/2019 | Page:2 | of 2 |