



## SUCO 0530 ELECTRONIC PRESSURE SWITCH

053010209B002  
PNP output (High Side), NO, 0-100 Bar, NPT 1/4, M12 -  
DIN EN 61076-2-101-A

- One switching output
- Stainless steel & titanium wetted parts
- Silicon-on-sapphire technology
- Factory set



### PRODUCT DESCRIPTION

The Suco high performance series of electronic pressure switches offers outstanding overpressure protection (up to 4x), long service life even under high pressure change rates whilst giving very low temperature error and excellent long-term stability. Using Silicon-on-sapphire technology for high reliability, EMC compatibility and accuracy there are five standard pressure ranges starting at 0-10 bar all the way up to 0-600 bar and a hysteresis of 0.2%-99.8%. Output option of PNP or NPN and the choice of normally open or normally closed with one switching output factory set (unadjustable by the user). The wetted parts are made of stainless steel and titanium in an all welded design ensuring excellent media compatibility with seven standard electrical connection options including Deutsch, DIN and M12 combined with eight standard thread type options.

Customer specific solutions are also available on request.

#### Application examples

- Automotive
- Braking systems
- Medical
- Mobile hydraulics
- Off highway
- Off-shore
- Rail

## TECHNICAL DATA

### GENERAL DATA

|                       |         |
|-----------------------|---------|
| Adjustment range max  | 100 bar |
| Adjustment range min  | 0 bar   |
| Electrical connection | M12x1   |
| Process connection    | 1/4 NPT |

|                       |                      |
|-----------------------|----------------------|
| <b>Function</b>       | Normally open (SPST) |
| <b>Output</b>         | PNP                  |
| <b>Burst pressure</b> | 800 bar              |
| <b>Pressure max</b>   | 400 bar              |

## TEMPERATURE & MATERIALS DATA

|                                  |                                  |
|----------------------------------|----------------------------------|
| <b>Temperature of media from</b> | -40 °C                           |
| <b>Temperature of media to</b>   | 125 °C                           |
| <b>Temperature ambient from</b>  | -40 °C                           |
| <b>Temperature ambient to</b>    | 100 °C                           |
| <b>Material of body</b>          | Stainless steel 1.4305           |
| <b>Material of wetted parts</b>  | Stainless steel 1.4305, Titanium |

## ADDITIONAL DATA

|   |  |
|---|--|
| <b>Supply voltage dc max</b>            | 32 V DC  |
| <b>Supply voltage dc min</b>            | 9.6 V DC   |
| <b>Pressure rise</b>                    | ≤ 5,000 bar/s  |
| <b>Switching time</b>                   | < 2 ms   |
| <b>Switching point adjustment range</b> | 2 ... 100 % of the nominal pressure range Full Scale (FS), programmable at factory |
| <b>Weight</b>                           | 80 g   |

## SAFETY & APPROVALS

|                                   |   |
|-----------------------------------|---|
| <b>IP class</b>                   | IP67  |
| <b>Hysteresis</b>                 | 2..99.8% of nominal pressure range (full scale), programmable at factory  |
| <b>Shock resistance</b>           | 500m / s <sup>2</sup> ; 11 ms half sine wave; DIN EN 60068-2-27           |
| <b>Vibration resistance</b>       | 20g: 4..2000 Hz sine wave, DIN EN 60068-2-6                               |
| <b>EMC</b>                        | EMC 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007                      |
| <b>Accuracy</b>                   | ±0.5 % of adjustment range (Full scale) at room temperature               |
| <b>Long term stability</b>        | ±0.1 % of adjustment range (full scale) per year                          |
| <b>Mechanical life expectancy</b> | 10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure |
| <b>Repeatability</b>              | ±0.1 % full scale   |



| DIN EN 175301-803-A  | M 12 - DIN EN 61076-2-101 A | ISO 15176-A1-4.1      | AMP Superseal         |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
|--|-----------------------------|-----------------------|-----------------------|-----|---|-----|---|-----|---|-----|--|-----|------------|---|------|---|-----|---|-----|--|-----|--|------------|------------|------|-------|-----|-------|-----|-----|---|-----|---|-----|------------|---|-----|---|-----|---|------|---|-----|
|  |                             |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
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| Pin  | Assignment                  |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 1  | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 2  | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 3  | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 4  | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
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| 1  | Line                        |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 2  | nc                          |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 3  | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 4  | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
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| 1  | Line                        |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 2  | nc                          |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 3  | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 4  | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
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| 1  | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 2  | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 3  | Line                        |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 4  | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| *without cable (code = 0000), with cable (code = 10 mm)  |                             |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| DEUTSCH DT04-4P  |                             |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
|  |                             |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
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| Pin  | Assignment                  |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 1  | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 2  | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 3  | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 4  | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| Pin  | Assignment                  |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| A  | Line                        |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| B  | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| C  | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| Cable  | Assignment                  |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| red  | Line                        |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| white  | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| black  | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
|  |                             |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| <b>Thread code 41</b>  | <b>Thread code 03</b>       | <b>Thread code 04</b> | <b>Thread code 09</b> |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
|  |                             |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| <b>Thread code 00</b>  | <b>Thread code 02</b>       | <b>Thread code 21</b> | <b>Thread code 02</b> |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |



See 221

Connection diagrams

Up to 100 VDC



As programmed depending on each connector

100 VDC for 100 V



As programmed depending on each connector

100 VDC for 100 V



As programmed depending on each connector

100 VDC for 100 V



Technical modifications and errors excepted.

| DIN EN 175301-803-A   | M 12 - DIN EN 61076-2-101 A | ISO 15176-A1-4.1      | AMP Superseal         |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
|---|-----------------------------|-----------------------|-----------------------|-----|---|-----|---|-----|---|-----|--|-----|------------|---|------|---|-----|---|-----|--|-----|--|------------|------------|------|-------|-----|-------|-----|-----|---|-----|---|-----|------------|---|-----|---|-----|---|------|---|-----|
|   |                             |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
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| Pin   | Assignment                  |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 1   | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 2   | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 3   | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 4   | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| Pin   | Assignment                  |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 1   | Line                        |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 2   | nc                          |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 3   | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 4   | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| Pin   | Assignment                  |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 1   | Line                        |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 2   | nc                          |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 3   | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 4   | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| Pin   | Assignment                  |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 1   | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 2   | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 3   | Line                        |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 4   | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| * Without copper cable: $\Phi = 76 \text{ mm}$ , with copper cable: $\Phi = 75 \text{ mm}$  |                             |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| DEUTSCH DT04-4P   | DEUTSCH DT04-3P             | Cable connection      |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
|   |                             |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| <table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>1</td><td>Chn</td></tr><tr><td>2</td><td>Out</td></tr><tr><td>3</td><td>Chn</td></tr><tr><td>4</td><td>Out</td></tr></table> <p>IP67<br/>• <math>\Phi = 38 \text{ mm}</math><br/>• <math>\Phi = 10 \text{ mm}</math><br/><b>Order number: 008</b></p>        | Pin                         | Assignment            | 1                     | Chn | 2 | Out | 3 | Chn | 4 | Out | <table><tr><th>Pin</th><th>Assignment</th></tr><tr><td>A</td><td>Line</td></tr><tr><td>B</td><td>Chn</td></tr><tr><td>C</td><td>Out</td></tr></table> <p>IP67<br/>• <math>\Phi = 38 \text{ mm}</math><br/>• <math>\Phi = 10 \text{ mm}</math><br/><b>Order number: 010</b></p>                               | Pin | Assignment | A | Line | B | Chn | C | Out | <table><tr><th>Cable</th><th>Assignment</th></tr><tr><td>red</td><td>Line</td></tr><tr><td>white</td><td>Out</td></tr><tr><td>black</td><td>Chn</td></tr></table> <p>IP67<br/>• <math>\Phi = 64 \text{ mm}</math><br/>(a 25 mm band add)<br/>cable length = 2 m<br/>• <math>\Phi = 10 \text{ mm}</math><br/><b>Order number: 011</b></p> |     | Cable  | Assignment | red        | Line | white | Out | black | Chn |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| Pin   | Assignment                  |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 1   | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 2   | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 3   | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| 4   | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| Pin   | Assignment                  |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| A   | Line                        |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| B   | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| C   | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| Cable   | Assignment                  |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| red   | Line                        |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| white   | Out                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| black   | Chn                         |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
|   |                             |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| <b>Thread code 41</b>   | <b>Thread code 03</b>       | <b>Thread code 04</b> | <b>Thread code 09</b> |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
|   |                             |                       |                       |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |
| <b>Thread code 00</b>   | <b>Thread code 02</b>       | <b>Thread code 21</b> | <b>Thread code 02</b> |     |   |     |   |     |   |     |  |     |            |   |      |   |     |   |     |  |     |  |            |            |      |       |     |       |     |     |   |     |   |     |            |   |     |   |     |   |      |   |     |



See 221

Connection diagrams

Up to 100 VDC



As programmed depending on each connector

100 VDC for 100 V



As programmed depending on each connector

100 VDC for 100 V



As programmed depending on each connector

100 VDC for 100 V



Technical modifications and errors excepted.