

## Data sheet

# Cartridge pressure switch

## Type ACB and CCB



Pressure controls ACB and CCB are compact disc type pressure switches with fixed set-points for long-standing use in refrigeration and air conditioning systems. They provide automatic or manual reset limit protection.

The small size, lightness and high degree of protection means that it can be mounted directly on the refrigeration systems.

The cartridge switch is available with different pressure settings and pressure connections to suit customer requirements.

All these features reduce installation costs and save space.

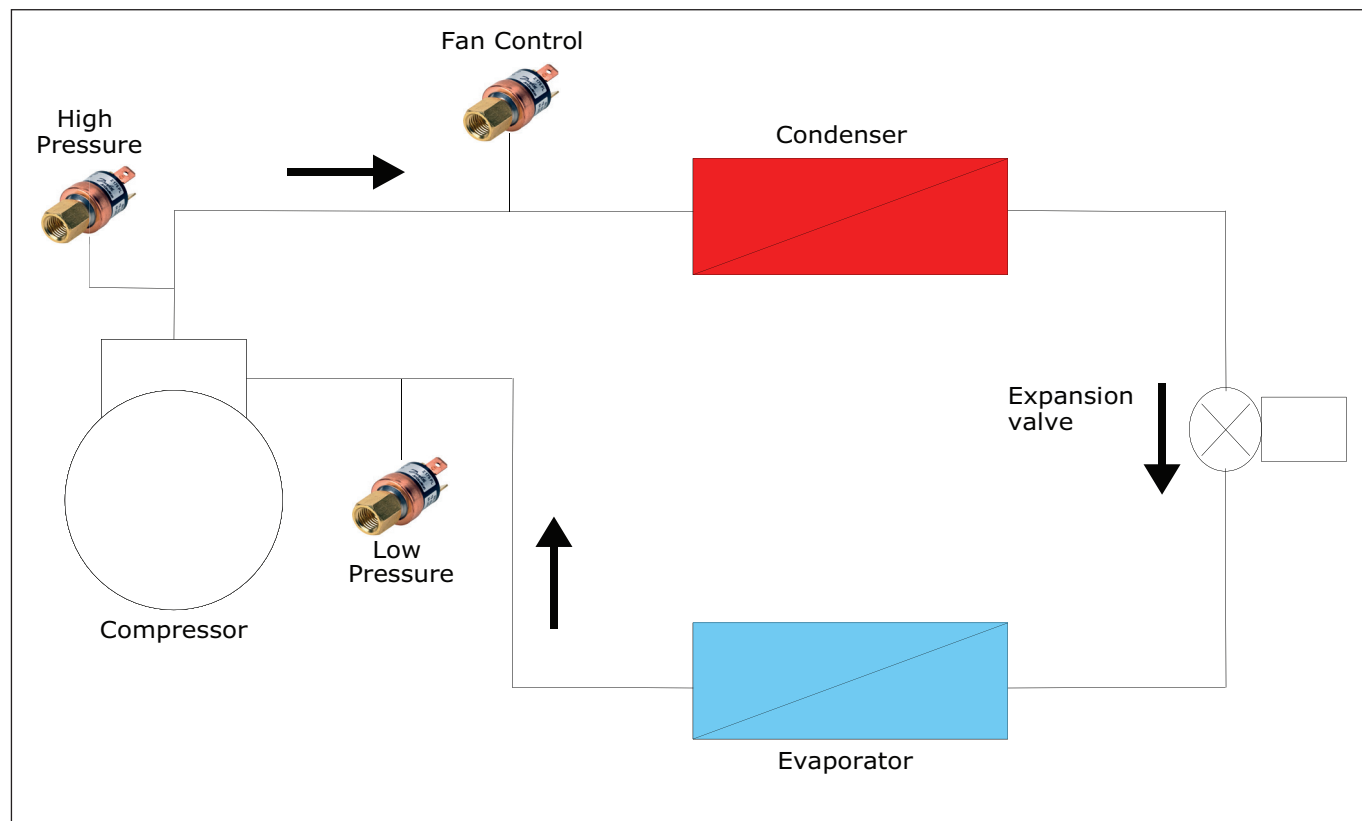
### Features

- Wide range
- Fixed pressure set points
- Normally Closed, Normally Open or SPDT contact system
- Automatic or manual reset
- Various port fittings for soldering or direct mounting
- Spades or cables
- Stripped ends or customer specific electrical plug
- Open or water-proof (IP65) version
- Type ACB for use as high and low pressure cut in and cut out as well as fan cycling
- Type CCB available for CO<sub>2</sub> refrigerants
- Compact design and easy to install

### Approvals

- CE according to EN 12263
- Technical Inspection Association TÜV TUV certificate no. 01 202 931/Q-04 0018 and 01 202 971/B-17-0002
- Low Voltage Directive 2014/35/EU
- UL recognized (type ACB only):
  - UL 873 and CSA C22.2 No. 24-93
  - UL 121201 and CSA C22/2 No.213-17 (for flammable refrigerants only)

## Air conditioning and Refrigeration



### Applications

- Condenser fan switch
- Compressor stop – start
- Pump-down switch
- Low Pressure safety pressure switch
- High Pressure safety pressure switch

## Data sheet | Cartridge pressure switch, type CB

### Technical data

| Type                              | ACB                                                                                                                                                                                                                                                                                                                                                                             |                               | CCB                             |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
|                                   | Water-proof (W)                                                                                                                                                                                                                                                                                                                                                                 | Open – spade connector (O)    | Water-proof (W)                 |
| Medium                            | R22, R134a, R404A, R407C, R407F, R410A, R438A, R448A, R449A, R452A, R513A<br>For flammable refrigerants please contact your nearest Danfoss office.<br>For complete list of approved refrigerants, visit <a href="http://www.products.danfoss.com">www.products.danfoss.com</a> and search for individual code numbers, where refrigerants are listed as part of technical data |                               | R744 (CO <sub>2</sub> )         |
| Range                             | -0.5 – 45 bar<br>-7 – 652 psi                                                                                                                                                                                                                                                                                                                                                   |                               | 100 – 150 bar<br>1450 –2176 psi |
| Reset                             | Automatic, Manual                                                                                                                                                                                                                                                                                                                                                               | Automatic                     |                                 |
| Contact function                  | SPST-NO, SPST-NC, SPDT                                                                                                                                                                                                                                                                                                                                                          |                               | SPST-NC                         |
| Electrical connections            | AWG18 cables                                                                                                                                                                                                                                                                                                                                                                    | Spades (size 6.35mm x 0.8 mm) | AWG18 cables                    |
| Cable length                      | 150 cm (black)                                                                                                                                                                                                                                                                                                                                                                  | –                             | 150 cm (black)                  |
| Contact load                      | 6 A @ 250 V AC for SPST                                                                                                                                                                                                                                                                                                                                                         |                               |                                 |
|                                   | 4 A @ 250 V AC for SPDT                                                                                                                                                                                                                                                                                                                                                         |                               | –                               |
|                                   | 0,01 - 0,05 A @ 12/24 V DC                                                                                                                                                                                                                                                                                                                                                      |                               |                                 |
| Pressure connections              | 1/4 in ODM solder                                                                                                                                                                                                                                                                                                                                                               |                               | 6.35 mm solder                  |
|                                   | 6 mm ODM solder                                                                                                                                                                                                                                                                                                                                                                 |                               |                                 |
|                                   | 1/4 in SAE female flare                                                                                                                                                                                                                                                                                                                                                         |                               |                                 |
|                                   | with depressure pin                                                                                                                                                                                                                                                                                                                                                             |                               |                                 |
| Maximum working pressure PS / MWP | 45 bar<br>650 psi                                                                                                                                                                                                                                                                                                                                                               |                               | 165 bar<br>2393 psi             |
| Burst pressure                    | 140 bar<br>2030 psi                                                                                                                                                                                                                                                                                                                                                             |                               | 375 bar<br>5440 psi             |
| Media temperature                 | -55 – 135 °C<br>-67 – 275 °F                                                                                                                                                                                                                                                                                                                                                    |                               | -30 – 100 °C<br>-20 – 210 °F    |
| Ambient temperature               | -30 – 85 °C                                                                                                                                                                                                                                                                                                                                                                     |                               |                                 |
| Enclosure                         | IP65                                                                                                                                                                                                                                                                                                                                                                            | No electrical protection      | IP65                            |

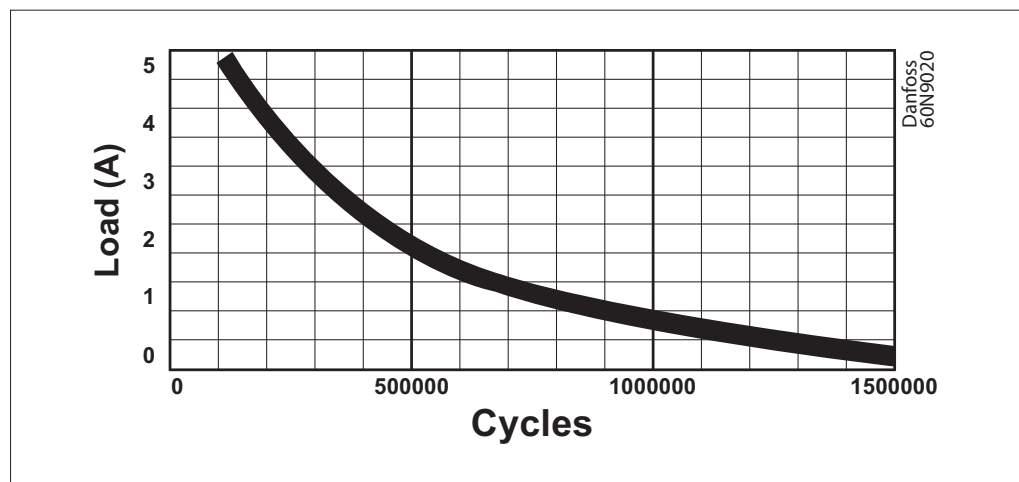
Customer specific features are available in a wide selection.  
Please refer to Specification Build-up on page 8.

## Lifetime

### Switch type:

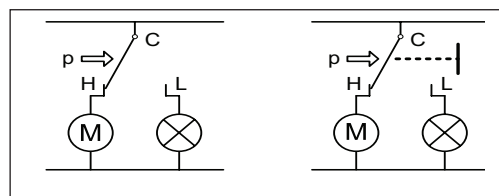
SPST auto reset, Normally open  
Pressure setting : max 3 MPa

As general rule, ACB pressure switches are capable to cover applications requiring cycling from 100000 to 1500000 cycles dependent on current load. The exact number of cycles in any of given application is to be determined by appropriate testing.  
Danfoss-Saginomiya reserves the right to change or modify specifications at any time without prior notice.



SPST auto reset, Normally close – up to 100000 cycles  
SPST manual reset, Normally close – 10000 cycles  
SPDT auto reset – up to 100000 cycles  
SPDT manual reset – 10000 cycles

## Electrical connections

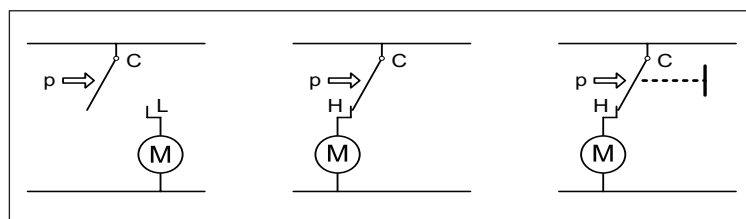


SPDT

SPDT with manual reset

SPST - Single Pole Single Throw  
SPDT - Single Pole Double Throw

(NO) - Normally Open  
(NC) - Normally Closed



SPST NO

SPST NC

SPST with manual reset

**Standard models**
*Type ACB*


| Application           | Reset       | Cut out              | Cut in               | Contact system / enclosure type<br>W-water-proof types with cable (IP65)<br>O-open (spade connector) types / no cable (IP00) | Connection type                 |                                 |                                 |
|-----------------------|-------------|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                       |             | [bar]<br>[psi]       | [bar]<br>[psi]       |                                                                                                                              | Solder                          |                                 | Flare                           |
|                       |             |                      |                      |                                                                                                                              | 6 mm                            | ¼ in                            | 7/16-20 UNF with depressure pin |
| High pressure cut out | Auto.       | 18 ± 0.7<br>260 ± 10 | 13 ± 1.2<br>190 ± 17 | SPST-NC / W                                                                                                                  | <b>061F7504</b><br>ACB-2UB504W  | <b>061F7505</b><br>ACB-2UB505W  | <b>061F7506</b><br>ACB-2UB506W  |
|                       |             |                      |                      | SPDT / W                                                                                                                     | –                               | –                               | <b>061F9057</b><br>ACB-2UC59W   |
|                       |             | 20 ± 1<br>290 ± 14   | 16 ± 1.5<br>230 ± 21 | SPST-NC / O                                                                                                                  | –                               | <b>061F8710</b><br>ACB-2UB210   | <b>061F8708</b><br>ACB-2UB208   |
|                       | Auto.       | 23 ± 0.7<br>335 ± 10 | 19 ± 1.2<br>275 ± 17 | SPST-NC / W                                                                                                                  | –                               | –                               | <b>061F8494</b><br>ACB-2UB465W  |
|                       |             |                      |                      | SPST-NC / O                                                                                                                  | –                               | <b>061F8707</b><br>ACB-2UB207   | <b>061F8703</b><br>ACB-2UB203   |
|                       |             |                      |                      | SPDT / W                                                                                                                     | –                               | –                               | <b>061F9056</b><br>ACB-2UC58W   |
|                       |             |                      |                      |                                                                                                                              | –                               | –                               | <b>061F9243</b><br>ACB-2UC63MW  |
|                       | Man.        | 26 ± 1<br>380 ± 15   | 20 ± 1.5<br>290 ± 22 | SPST-NC / W                                                                                                                  | <b>061F7507</b><br>ACB-2UB507W  | <b>061F7508</b><br>ACB-2UB508W  | <b>061F7509</b><br>ACB-2UB509W  |
|                       |             |                      |                      | SPST-NC / O                                                                                                                  | –                               | <b>061F8705</b><br>ACB-2UB205   | <b>061F8701</b><br>ACB-2UB201   |
|                       | SPST-NC / W |                      |                      | <b>061F9703</b><br>ACB-2UB803MW                                                                                              | <b>061F9714</b><br>ACB-2UB814MW | <b>061F9713</b><br>ACB-2UB813MW |                                 |
|                       | SPDT / W    |                      |                      | –                                                                                                                            | –                               | <b>061F9055</b><br>ACB-2UC57W   |                                 |
|                       | Auto.       | 28 ± 1<br>405 ± 14   | 21 ± 1.5<br>305 ± 22 | SPST-NC / W                                                                                                                  | <b>061F7510</b><br>ACB-2UB510W  | <b>061F7513</b><br>ACB-2UB513W  | <b>061F7514</b><br>ACB-2UB514W  |
|                       | –           |                      |                      |                                                                                                                              | –                               | <b>061F9522</b><br>ACB-2UB327MW |                                 |
|                       | SPST-NC / O |                      |                      | –                                                                                                                            | <b>061F8704</b><br>ACB-2UB204   | <b>061F8700</b><br>ACB-2UB200   |                                 |
|                       | SPDT / W    |                      |                      | –                                                                                                                            | –                               | <b>061F9054</b><br>ACB-2UC56W   |                                 |
|                       | SPDT / W    |                      |                      | –                                                                                                                            | –                               | <b>061F9242</b><br>ACB-2UC62MW  |                                 |
|                       |             |                      |                      |                                                                                                                              |                                 |                                 |                                 |
|                       | Auto.       | 31 ± 1<br>405 ± 14   | 24 ± 1.5<br>350 ± 22 | SPST-NC / W                                                                                                                  | <b>061F8493</b><br>ACB-2UB464W  | –                               | <b>061F8492</b><br>ACB-2UB463W  |
|                       |             |                      |                      | SPST-NC / O                                                                                                                  | –                               | <b>061F8706</b><br>ACB-2UB206   | <b>061F8702</b><br>ACB-2UB202   |
|                       |             |                      |                      | SPDT / W                                                                                                                     | –                               | –                               | <b>061F9053</b><br>ACB-2UC55W   |
|                       | Auto.       | 42 ± 1.2<br>610 ± 17 | 33 ± 2<br>480 ± 29   | SPST-NC / W                                                                                                                  | <b>061F7515</b><br>ACB-2UB515W  | <b>061F7516</b><br>ACB-2UB516W  | <b>061F7517</b><br>ACB-2UB517W  |
|                       | –           |                      |                      |                                                                                                                              | –                               | <b>061F9575</b><br>ACB-2UB461MW |                                 |
| SPDT / W              | –           |                      |                      | –                                                                                                                            | <b>061F9052</b><br>ACB-2UC54W   |                                 |                                 |

\* Other code numbers are available upon request.

## Data sheet | Cartridge pressure switch, type CB

### Standard models (continued)

| Application          | Reset | Cut out               | Cut in                | Contact system /<br>enclosure type<br>W-water-proof<br>types with cable<br>(IP65)<br>O-open (spade<br>connector)<br>types / no cable<br>(IP00) | Connection type                |                                |                                          |
|----------------------|-------|-----------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|------------------------------------------|
|                      |       | [bar]<br>[psi]        | [bar]<br>[psi]        |                                                                                                                                                | Solder                         |                                | Flare                                    |
|                      |       |                       |                       |                                                                                                                                                | 6 mm                           | ¼ in                           | 7/16-20 UNF<br>with<br>depressure<br>pin |
| Low pressure control | Auto. | 0.5 ± 0.4<br>7 ± 6    | 1.5 ± 0.5<br>22 ± 4   | SPST-NO / W                                                                                                                                    | <b>061F7518</b><br>ACB-2UA518W | <b>061F7519</b><br>ACB-2UA519W | <b>061F7520</b><br>ACB-2UA520W           |
|                      |       |                       |                       | SPST-NO / O                                                                                                                                    | —                              | <b>061F7402</b><br>ACB-2UA152  | <b>061F7400</b><br>ACB-2UA150            |
|                      |       |                       |                       | SPDT / O                                                                                                                                       | —                              | <b>061F9106</b><br>ACB-2UC106  | <b>061F9102</b><br>ACB-2UC102            |
|                      | Auto. | 0.7 ± 0.5<br>10 ± 7   | 1.7 ± 0.4<br>25 ± 6   | SPST-NO / W                                                                                                                                    | <b>061F7521</b><br>ACB-2UA521W | <b>061F7522</b><br>ACB-2UA522W | <b>061F7523</b><br>ACB-2UA523W           |
|                      |       |                       |                       | SPDT / W                                                                                                                                       | —                              | —                              | <b>061F9058</b><br>ACB-2UC60W            |
|                      | Auto. | 1.7 ± 0.5<br>25 ± 7   | 2.7 ± 0.4<br>39 ± 6   | SPST-NO / W                                                                                                                                    | <b>061F7524</b><br>ACB-2UA524W | <b>061F7525</b><br>ACB-2UA525W | <b>061F7526</b><br>ACB-2UA526W           |
|                      | Auto. | 2.2 ± 0.3<br>32 ± 4.5 | 3.4 ± 0.3<br>50 ± 4.5 | SPST-NO / W                                                                                                                                    | <b>061F7418</b><br>ACB-2UA711W | —                              | —                                        |
| Fan control          | Auto. | 8.5 ± 1.2<br>125 ± 17 | 11 ± 0.8<br>160 ± 12  | SPST-NO / W                                                                                                                                    | <b>061F8491</b><br>ACB-2UA393W | —                              | <b>061F8490</b><br>ACB-2UA392W           |
|                      |       | 13 ± 1.5<br>190 ± 22  | 16 ± 1<br>230 ± 14    |                                                                                                                                                | <b>061F8334</b><br>ACB-2UA306W | —                              | <b>061F8333</b><br>ACB-2UA305W           |

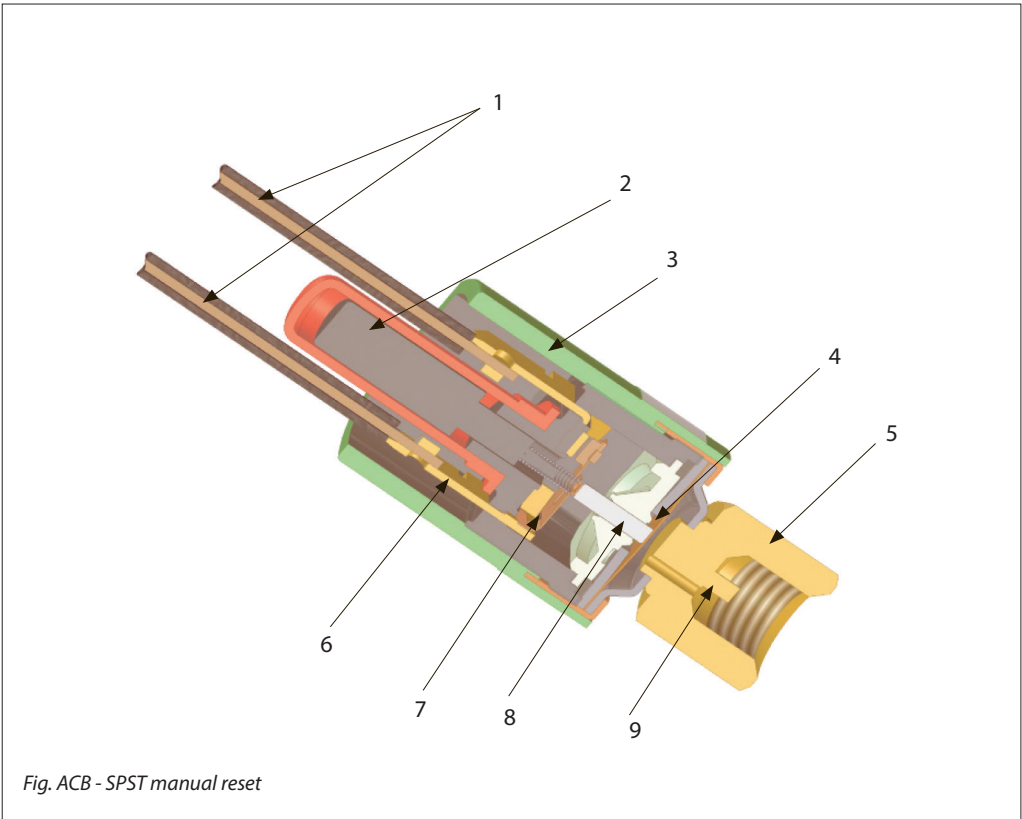
### Type CCB



| Application           | Reset | Cut out            | Cut in             | Contact system /<br>enclosure type<br>W-water-proof<br>types with cable<br>(IP65) | Connection type               |                               |
|-----------------------|-------|--------------------|--------------------|-----------------------------------------------------------------------------------|-------------------------------|-------------------------------|
|                       |       | [bar]<br>[psi]     | [bar]<br>[psi]     |                                                                                   | Solder 6.35 mm                |                               |
|                       |       |                    |                    |                                                                                   | Packing 100 pcs.              | Packing 20 pcs.               |
| High pressure control | Auto. | 100±10<br>1450±145 | 70±20<br>1015±290  | SPST-NC / W                                                                       | <b>061F9808</b><br>CCB-2UB03W | <b>061F9908</b><br>CCB-2UB03W |
|                       |       | 110±10<br>1595±145 | 80±20<br>1160±290  |                                                                                   | <b>061F9809</b><br>CCB-2UB04W | <b>061F9909</b><br>CCB-2UB04W |
|                       |       | 120±10<br>1740±145 | 90±20<br>1305±290  |                                                                                   | <b>061F9810</b><br>CCB-2UB05W | <b>061F9910</b><br>CCB-2UB05W |
|                       |       | 130±10<br>1885±145 | 100±20<br>1450±290 |                                                                                   | <b>061F9811</b><br>CCB-2UB06W | —                             |
|                       |       | 140±10<br>2030±145 | 100±20<br>1450±290 |                                                                                   | <b>061F9812</b><br>CCB-2UB07W | —                             |
|                       |       | 150±10<br>2175±145 | 100±20<br>1450±290 |                                                                                   | <b>061F9813</b><br>CCB-2UB08W | —                             |

Design / Function

- 1. Wires
- 2. Reset button
- 3. Water-proof casing
- 4. Diaphragm
- 5. Pressure connection  
(1/4 in female flare)
- 6. Electrical terminals
- 7. Micro-switch
- 8. Shaft
- 9. Depressure pin



As pressure is applied through the connection on to the diaphragm, the diaphragm is pushed up against the operation shaft.

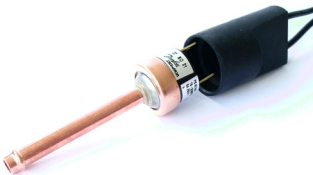
When the operation shaft rises, it pushes up the contact plate, so that contacts become connected (in normally open) or disconnected (in normally closed).

As the pressure in the connection decreases, the diaphragm returns to its original state, and the operation shaft lowers, causing the contact plate to return to its original position.

Special accessories

A wide variety of cartridge switches are available with open enclosure - no electric protection. For these switches a water-proof rubber plug has been specially designed.

When the plug is installed on the switch a water-proof seal IP64 is obtained. The water-proof rubber plug is available with many different cable lengths.



| Standard cable length [m]* | Packing quantity | Code no. |
|----------------------------|------------------|----------|
| 2.5                        | 100              | 061F1302 |
| 6                          | 100              | 061F1304 |

\* other cable lengths available upon request

## Specification build up

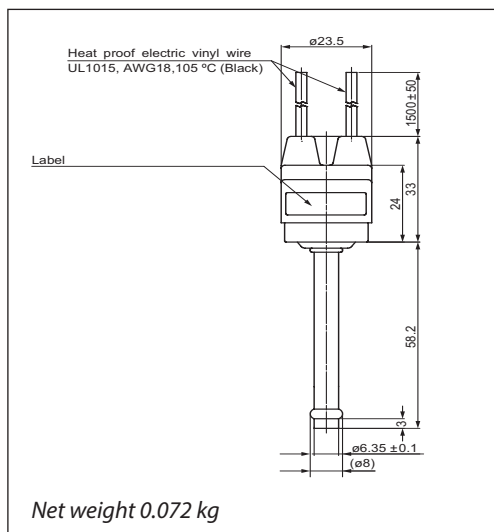
### Type ACB

| Requested specs:                     |      |                                                                                                                    | Product | Electrical rating | Contact | Approvals | Enclosure | Reset | Housing | Port fitting | Upper activation setting [bar guage] | Tolerance on upper setting [bar] | Lower activation setting [bar guage] | Tolerance on low setting [bar] | Electrical connection | Cable lenght in cm | Cable plug | Mark if additional specifications | Details of special features (if any) |
|--------------------------------------|------|--------------------------------------------------------------------------------------------------------------------|---------|-------------------|---------|-----------|-----------|-------|---------|--------------|--------------------------------------|----------------------------------|--------------------------------------|--------------------------------|-----------------------|--------------------|------------|-----------------------------------|--------------------------------------|
| Example:                             |      |                                                                                                                    | ACB     | 2U                | B       | 1         | W         | A     | R       | L            | 20,0                                 | 1,0                              | 15,0                                 | 1,5                            | A                     | 100                | 0          |                                   |                                      |
| Field                                | Code | Explanation                                                                                                        |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Product                              |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Electrical rating                    |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | 1U   | 1A @ 250V AC                                                                                                       |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | 2U   | 6A @ 250V AC (SPST), 4A @ 250V AC (SPDT)                                                                           |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | 4U   | 0,05A @ 12/24V DC (gold contacts)                                                                                  |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Contact                              |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | A    | SPST-NO                                                                                                            |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | B    | SPST-NC                                                                                                            |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | C    | SPDT                                                                                                               |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Approvals                            |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | 0    | CE [category II] approval                                                                                          |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | 1    | CE [category II + IV], TÜV, VDE, UL & C-UL approvals (only with ACB)                                               |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | 2    | UL & C-UL approvals (only with ACB)                                                                                |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | 3    | CE [category II + IV] approval (only with ACB)                                                                     |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Enclosure                            |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | O    | Open                                                                                                               |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | W    | Waterproof IP65 (only with cables)                                                                                 |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Reset                                |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | A    | Automatic                                                                                                          |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | M    | Manual (not SPST-NO; SPDT only in Panel mount housing)                                                             |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Housing                              |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | R    | Regular hot-melt                                                                                                   |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | E    | Epoxy type                                                                                                         |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | P    | Panel mount (mandatory for SPDT Manual reset versions)                                                             |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Port fitting                         |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | M    | 1/4" SAE female flare w. deflator                                                                                  |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | V    | 1/4" SAE female flare w. 1mm deflator                                                                              |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | H    | 1/4" SAE male flare                                                                                                |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | P    | 1/4" solder Cu-tube (tip = 3 mm)                                                                                   |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | X    | 1/4" solder Cu-tube (tip = 7 mm)                                                                                   |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | S    | 1/4" solder Cu-tube (no tip)                                                                                       |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | L    | 6 mm solder Cu-tube (tip = 7mm)                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | E    | 1/8-27 NPT male                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | Y    | R (PT) 1/8"                                                                                                        |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Upper activation setting [bar guage] |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | --   |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Tolerance on upper setting [bar]     |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | --   | +/- indicated value                                                                                                |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Lower activation setting [bar guage] |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | --   |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Tolerance on low setting [bar]       |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | --   | +/- indicated value                                                                                                |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Electrical connection                |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | A    | AWG18 cables                                                                                                       |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | B    | AWG16 cables                                                                                                       |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | C    | AWG18 (UL 3173) cables                                                                                             |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | S    | 90 deg. spades                                                                                                     |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | D    | Double insulated AWG18 cables                                                                                      |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | V    | Double insulated H05VV5-F 2-in-1 cable (on request only, E housing only, Automatic reset only)                     |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | R    | Double insulated H05RNF 2-in-1 cable (on request only, E housing only, Automatic reset only)                       |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | P    | AWG18 with PVC tube                                                                                                |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | H    | AWG18 halogen free (RoHS compliant, currently E housing only)                                                      |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Cable lenght in cm                   |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | ---  | Please use one of standard lengths: 020, 050, 080, 100, 150, 200 & 250 cm                                          |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Cable plug                           |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      |      | (Leave blank if no cable)                                                                                          |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | 0    | Cut ends                                                                                                           |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Faston                               | A    | A1: AMP 170213-2, A2: AMP 170213-2, A3: OBR#250, A4: AMP 735222-2+AMP 735222-2, A5: AMP 170183-2, A6: AMP 170213-2 |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| AMP                                  | B    | B1: AMP 350777-1, B2: AMP 282080-1, B3: AMP 282104-1, B4: AMP 192167-2, B5: AMP 881772-1, B6: AMP 174354-2         |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Molex                                | M    | M1: 5557-02R                                                                                                       |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Pin connector                        | P    | P1: Phoenix 3200250, P2: AMP 350218-1, P3: AMP 170213-2+AMP 926933-1, P4: AMP 926882-1, P5: AMP 165590-1           |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Packard                              | Q    | Q1: 12010973, Q2: 12015792, Q3: 15300002, Q4: 15300027, Q5: 12020829                                               |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Stripped end                         | S    | S1: stripped ends 15mm, S2: stripped ends 10mm                                                                     |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| VHR                                  | V    | V1: VHR-2N, V2: VHR-3N                                                                                             |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| WAGO                                 | W    | W1: 231-302/026-000, W2: 769-102/021-000                                                                           |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Additional features                  |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
|                                      | X    | Leave blank if no additional specifications<br>Please specify (clear text attachment)                              |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |
| Details of special features (if any) |      |                                                                                                                    |         |                   |         |           |           |       |         |              |                                      |                                  |                                      |                                |                       |                    |            |                                   |                                      |

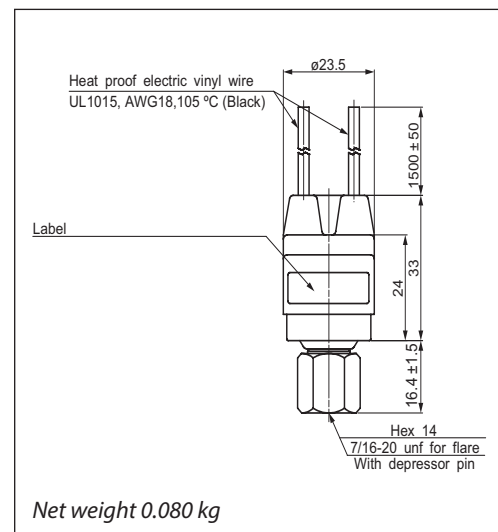
**Data sheet | Cartridge pressure switch, type CB**

**Dimensions [mm]  
and weights [kg]**

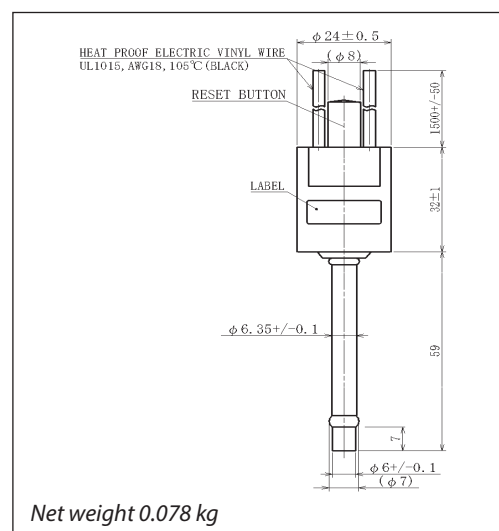
*Type ACB – SPST water-proof with automatic  
reset ¼ in solder type*



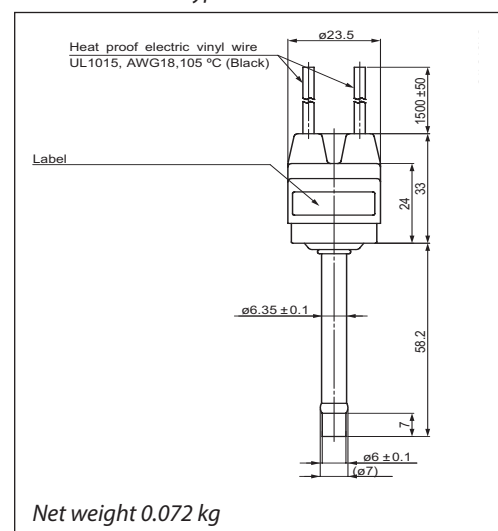
*Type ACB – SPST water-proof with automatic  
reset female flare*



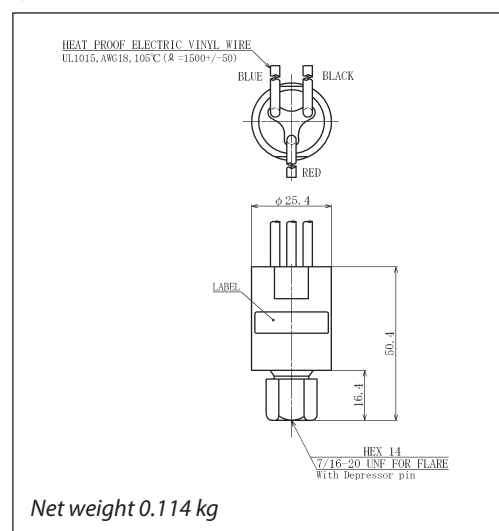
*Type ACB – SPST water-proof with manual  
reset solder type*



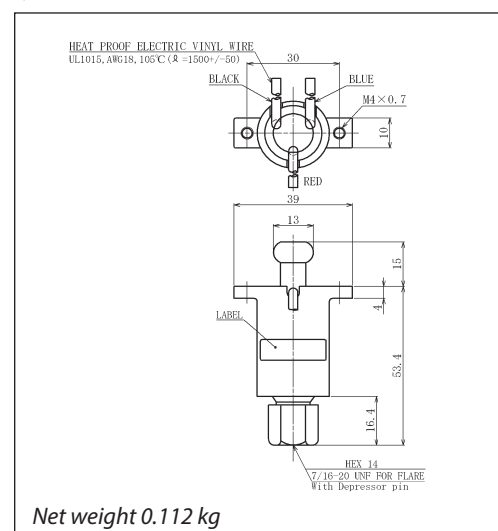
*Type ACB – SPST water-proof with automatic  
reset 6 mm solder type*



*Type ACB – SPDT with automatic reset*

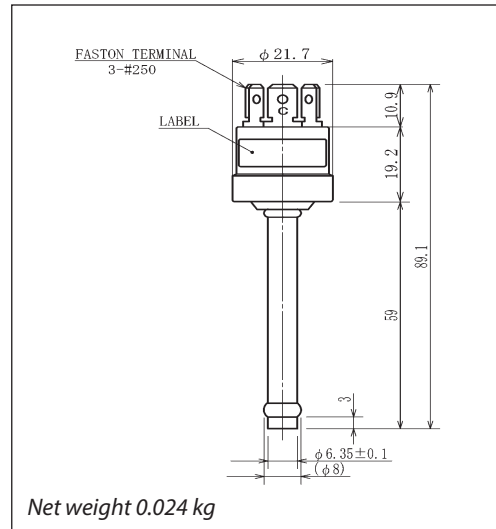


*Type ACB – SPDT with manual reset*

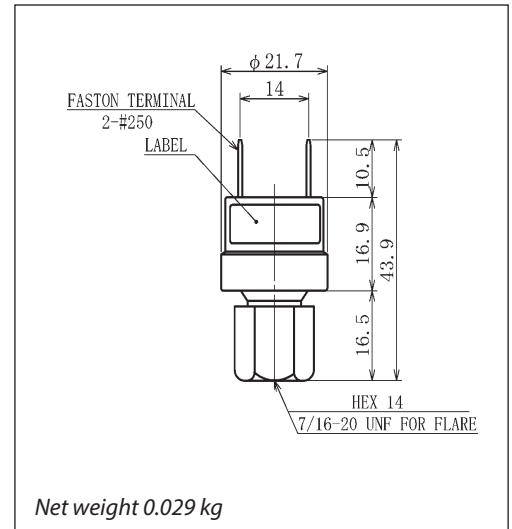


**Dimensions [mm]  
and weights [kg]  
(continued)**

*Type ACB – SPDT open type solder type*



*Type ACB – SPST open type with female flare*



*Type CCB – SPST water-proof with automatic  
reset 6.35 mm solder type*

