



01706E00

Series 8082 contact elements enable contact blocks to be combined easily; using an actuator in the 8602 series, regardless of the type of actuator, up to 4 contact elements can be actuated.

STAHL

## Control Button Series 8082

- Explosion protection to
  - CENELEC
  - IEC
- Can be used in Zone 1 and Zone 2
- Contact element available in 2 forms
  - with 1 NO contact
  - with 1 NC contact, spring loaded
- Contact material available in silver-nickel or gold-plated
- Actuators in 9 different forms
  - Pushbutton
  - Mushroom button
  - Selector switch
  - Rotary actuator
  - Key-operator switch
  - Key-operator button
  - Mushroom stay-put button with key lock
  - Mushroom stay-put button
  - Double pushbutton actuator
- Connection type
  - screw terminal
  - cage clamp terminal
- Control switch and key switch: the functions „latching/spring return“ and/or „key not removable“ can be coded at the already installed actuators on site.

# Zones 1 & 2



**Selection table**

| Version   | Description  | Ordering code      | Weight<br>kg |
|---|--|--------------------|--------------|
|  <p>03132E00<br/>Contact element with screw terminal</p>       |  <p>11<br/>12<br/>08779E00<br/>Contact element with screw terminal<br/>1 NC<br/>Contact: silver-nickel</p>        | <b>8082/1-1-00</b> | 0,025        |
|   |  <p>11<br/>12<br/>08779E00<br/>Contact element with screw terminal<br/>1 NC<br/>Contact: gold-plated</p>          | <b>8082/1-1-10</b> | 0,025        |
|   |  <p>13<br/>14<br/>08020E00<br/>Contact element with screw terminal<br/>1 NO<br/>Contact: silver-nickel</p>        | <b>8082/1-2-00</b> | 0,025        |
|   |  <p>13<br/>14<br/>08020E00<br/>Contact element with screw terminal<br/>1 NO<br/>Contact: gold-plated</p>          | <b>8082/1-2-10</b> | 0,025        |
|  <p>05750E00<br/>Contact element with cage clamp terminal</p> |  <p>11<br/>12<br/>08779E00<br/>Contact element with cage clamp terminal<br/>1 NC<br/>Contact: silver-nickel</p>   | <b>8082/2-1-00</b> | 0,025        |
|   |  <p>11<br/>12<br/>08779E00<br/>Contact element with cage clamp terminal<br/>1 NC<br/>Contact: gold-plated</p>    | <b>8082/2-1-10</b> | 0,025        |
|   |  <p>13<br/>14<br/>08020E00<br/>Contact element with cage clamp terminal<br/>1 NO<br/>Contact: silver-nickel</p> | <b>8082/2-2-00</b> | 0,025        |
|   |  <p>13<br/>14<br/>08020E00<br/>Contact element with cage clamp terminal<br/>1 NO<br/>Contact: gold-plated</p>   | <b>8082/2-2-10</b> | 0,025        |

- Note**
- all actuators 8602 can be equipped with up to 2 contact elements
  - the actuators 8602 assembly code 001, 002, 003, 005, 009, 010, 012 and 015 can be equipped with up to 3 contact elements
  - if the assembly code 023 is built in an enclosure 8146/5 or 8125/5 up to 4 contact elements are installable

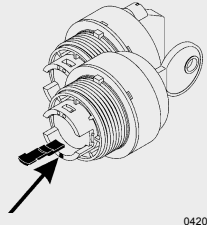
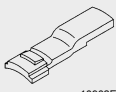
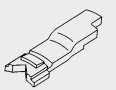
**Coding of Actuators Series 8602**

You can change the functions „spring-return“ and „latching“ for the control switches and key switches by yourself on site at the already mounted actuator.  
At the key switch actuators also the function „key not withdrawable“ can be coded on site.



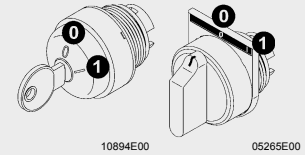
### Actuators with 2 switching positions

for key switch (8602A0008-1-2-...),  
for control switch (8602A0727-1-2-...)

| coding element  | switching position I  | switching position 0                                 |
|---|---|--|
|   | <br>04201E00 |  |
| without   | „latching“<br>key withdrawable  | „latching“;<br>key withdrawable;<br>can not be coded |
| yellow<br><br>10902E00 | „spring-return“<br>key not withdrawable   |  |
| red<br><br>10900E00    | „latching“<br>key not withdrawable  |  |

Note: The 2 position actuators type 8602A0726-2-2-... for control switches are already configured „latching“ or „spring-return“ at the factory and cannot be coded on site!

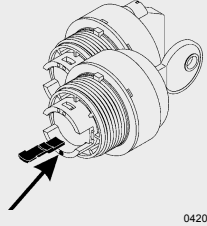
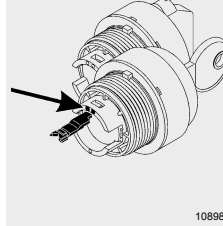
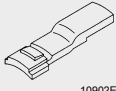
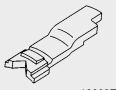
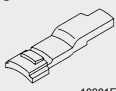
### 2 switching positions



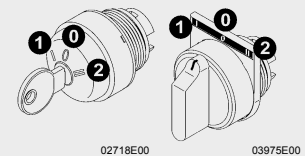
0 = switching positions 0  
1 = switching positions I

### Actuators with 3 switching positions

for key switch (8602A0008-1-2-...),  
for control switch (8602A0727-1-2-...)

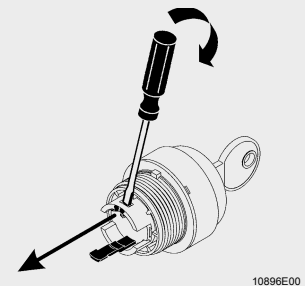
| coding element  | switching position I  | switching position II   | switching position 0                                 |
|---|---|---|--|
|   | <br>04201E00 | <br>10898E00 |  |
| without   | „latching“<br>key withdrawable  | „latching“<br>key withdrawable  | „latching“;<br>key withdrawable;<br>can not be coded |
| yellow<br><br>10902E00 | „spring-return“<br>key not withdrawable   | „spring-return“<br>key not withdrawable   |  |
| red<br><br>10900E00    | --  | „latching“<br>key not withdrawable  |  |
| green<br><br>10901E00  | „latching“<br>key not withdrawable  | --  |  |

### 3 switching positions







0 = switching position 0  
1 = switching position I  
2 = switching position II







### Demontage der Codierteile



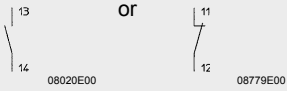
Accessories and spare parts

| Designation | Illustration  | Description  | Ordering code       | Weight<br>kg        |       |
|-------------|---|--|---------------------|---------------------|-------|
| Actuators   | <br>05733E00 | Pushbutton actuator<br>assembly code 001   | <b>8602804177AA</b> | 0,023               |       |
|             | <br>05538E00 | Mushroom button,<br>Ø 38 mm      black      assembly code 003                                  | <b>8602806177AA</b> | 0,030               |       |
|             | <br>05535E00 | Selector switch      black      assembly code 005  | <b>8602811167AA</b> | 0,032               |       |
|             | <br>05527E00 | Rotary actuator, small      black<br>2 switching positions                                     | assembly code 726   |                     |       |
|             |   | 2 switching positions      latching  | assembly code 726   | <b>8602802177AA</b> | 0,023 |
|             |   | 2 switching positions      spring return   | assembly code 726   | <b>8602802177AB</b> | 0,023 |
|             |   | The coding elements for the modification to „spring return“ are included in the assembly code. |                     |                     |       |
|             |   | 3 switching positions      vertical installation (in 8040)                                     | assembly code 726   | <b>8602802177VA</b> | 0,028 |
|             |   | 3 switching positions      horizontal installation (in 8146/5)                                 | assembly code 726   | <b>8602802177HA</b> | 0,028 |
|             |   | Rotary actuator, small      lockable for control Button 8082<br>assembly code 727              |                     |                     |       |
|             |   | 2 switching positions      vertical installation (in 8040)                                     | assembly code 727   | <b>8602803177VA</b> | 0,028 |
|             | 2 switching positions      horizontal installation (in 8146/5)                                | assembly code 727  | <b>8602803177HA</b> | 0,028               |       |
|             | 3 switching positions      vertical installation (in 8040)                                    | assembly code 727  | <b>8602803177VB</b> | 0,028               |       |
|             | 3 switching positions      horizontal installation (in 8146/5)                                | assembly code 727  | <b>8602803177HB</b> | 0,028               |       |

## Accessories and spare parts


| Designation   | Illustration  | Description   | Ordering code       | Weight<br>kg |
|---|---|---|---------------------|--------------|
| Actuators   | <br>05734E00   | Key-operated switch actuator<br><br>The coding elements for modification to „spring return“, or „key not removable“ are included in the assembly code, standard lock MS1, more closures on request. |                     |              |
|   |   | 2 switching positions      vertical installation (in 8040)      assembly code 008   | <b>8602801177VA</b> | 0,053        |
|   |   | 2 switching positions      horizontal installation (in 8146/5)      assembly code 008   | <b>8602801177HA</b> | 0,053        |
|   |   | 3 switching positions      vertical installation (in 8040)      assembly code 008   | <b>8602801170VC</b> | 0,053        |
|   |   | 3 switching positions      horizontal installation (in 8146/5)      assembly code 008   | <b>8602801177HC</b> | 0,053        |
|   | <br>05537E00  | Mushroom stay-put button with key lock      Mushroom $\varnothing$ 38 mm, black      assembly code 006  | <b>8602812177AA</b> | 0,066        |
|   |   | Mushroom stay-put button with key lock      Mushroom $\varnothing$ 38 mm, red, with yellow background disc, usable for EM-STOP-function      assembly code 009                                      | <b>8602813177AA</b> | 0,066        |
|   | <br>05536E00 | Mushroom stay-put button      Mushroom $\varnothing$ 38 mm, red, with yellow background discs, for EM-STOP-function      assembly code 010  | <b>8602807177AA</b> | 0,031        |
|   |   | Mushroom stay-put button      Mushroom $\varnothing$ 38 mm, black      assembly code 012  | <b>8602809177AA</b> | 0,031        |
|   | <br>05533E00 | Mushroom stay-put button      Mushroom $\varnothing$ 55 mm, red, with yellow background discs, for EM-STOP-function      assembly code 015  | <b>8602808177AA</b> | 0,035        |
| <br>05534E00 | Double pushbutton actuator      assembly code 023   | <b>8602811177AA</b>   | 0,037               |              |
| <br>05647E00 | to close not used mounting holes $\varnothing$ 30,5 mm  | <b>8602801587</b>   | 0,016               |              |

**Technical Data**


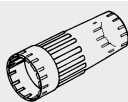

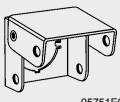
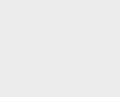


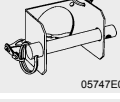


|   |   |  |               |
|---|---|--|---------------|
| Contact block                                   |   |  |               |
| Explosion protection                            | ⊕ II 2 G EEx de IIC T6  |  |               |
| Certificates                                    | PTB 00 ATEX 1031 U  |  |               |
| Other certificates                              | CSA (Canada), SIMTARS (Australia), UL (USA)   |  |               |
| Enclosure material                              | Polyamide   |  |               |
| Rated working voltage                           | max. 500 V  |  |               |
| Rated working current                           | max. 6 A (at 1000 VA)   |  |               |
| Contact arrangement                             |    | different combinations possible        |               |
|   |   | NC contact for EMERGENCY-STOP-function |               |
| Contact material                                | Silver-nickel / gold-plated   |  |               |
| Switching capacity                              | AC 15   | 230 V / 4 A                            | 400 V / 2.5 A |
|   | DC 1  | L/R = 1 ms: 60 V- 4 A                  | 110 V- 2.5 A  |
|   | DC 13   | τ 0.95 = 45 ms: 60 V- 4 A              | 110 V- 2 A    |
|   |   | τ 0.95 = 300 ms: 60 V- 2.5 A           | 110 V- 1.0 A  |
| Life  |   |  |               |
| mechanical                                      | 10 <sup>6</sup> operations  |  |               |
| electrical                                      | 10 <sup>6</sup> operations  |  |               |
| Ambient temperature                             | - 55 °C ... + 70 °C   |  |               |
| Terminal  | 2,5 mm <sup>2</sup> flexible  |  |               |
| Actuators                                       |   |  |               |
| Certificates                                    | PTB 01 ATEX 1129 U  |  |               |
| Material  | Polyamide   |  |               |
| Impact strenght                                 | ≥ 7 Nm  |  |               |
| Symbol discs                                    | Polyamide   |  |               |
| Gaskets   |   |  |               |
| Standard  | NBR   |  |               |
| Special   | Fluor-Silikon   |  |               |
| Degree of Protection                            | IP 66   |  |               |
| Label mount for additional labels               | Polyamide, black  |  |               |
| <b>Technical Data</b>                           |   |  |               |
| Pushbutton actuator                             | Spring-return actuator; interchangeable symbol labels   |  |               |
| Mushroom button actuator                        | Spring-return actuator; only non-latching; black; Ø 38 mm   |  |               |
| Mushroom stay-put button actuator               | Self-latching when pushed; released only by turning; Ø 38 mm red or black, or Ø 55 mm red; with yellow background labels; for EMERGENCY-STOP-function     |  |               |
| Mushroom stay-put button with key lock actuator | Self-latching when pushed; released only with key; Ø 38 mm red or black; with yellow background labels; for EMERGENCY-STOP-function; standard locking MS1 |  |               |
| Key-operated switch actuator                    | Two- or three-position switches; key removable in all positions; function „spring return“ and/or „key not removable“ are codable; standard locking MS1    |  |               |
| Selector switch actuator                        | Rotary knob with 2 positions; interchangeable symbol labels   |  |               |
| Double pushbutton actuator                      | Spring-return actuator; 2 pushbuttons in one actuator element; interchangeable labels   |  |               |
| Rotary actuator, small                          | Two- or three-position switches; black  |  |               |
| Closure part                                    | For closing off unused holes in cover Ø 30,5 mm   |  |               |



## Accessories and spare parts

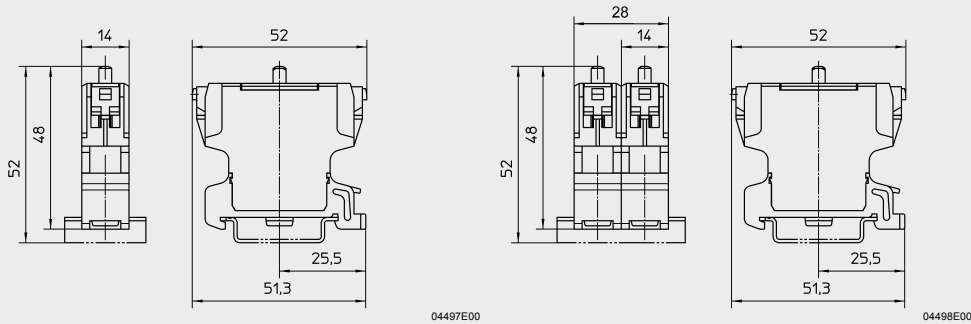
| Designation  | Illustration  | Description       | Ordering code     | Weight<br>kg |
|--|---|-------------------|-------------------|--------------|
| Symbol discs for<br>pushbuttons and<br>selector switches | <br>05753E00 | blue plain disc   | <b>8602934856</b> | 0,001        |
|  |   | yellow plain disc | <b>8602935856</b> | 0,001        |
|  |   | red plain disc    | <b>8602930856</b> | 0,001        |
|  |   | green plain disc  | <b>8602931856</b> | 0,001        |
|  |   | white plain disc  | <b>8602933856</b> | 0,001        |
|  |   | black plain disc  | <b>8602932856</b> | 0,001        |
|  |   | black I           | <b>8602920840</b> | 0,001        |
|  |   | green I           | <b>8602907840</b> | 0,001        |
|  |   | white I           | <b>8602929840</b> | 0,001        |
|  |   | black II          | <b>8602921840</b> | 0,001        |
|  |   | green II          | <b>8602908840</b> | 0,001        |
|  |   | red 0             | <b>8602902840</b> | 0,001        |
|  |   | black 0           | <b>8602914840</b> | 0,001        |
|  |   | red ↷             | <b>8602901840</b> | 0,001        |
|  |   | black Auf         | <b>8602926840</b> | 0,001        |
|  |   | black Ab          | <b>8602927840</b> | 0,001        |
|  |   | black CLOSE       | <b>8602925840</b> | 0,001        |
|  |   | black Zu          | <b>8602924840</b> | 0,001        |
|  |   | black Open        | <b>8602923840</b> | 0,001        |
|  |   | black EIN         | <b>8602922840</b> | 0,001        |
|  |   | red OFF           | <b>8602905840</b> | 0,001        |
|  |   | red Aus           | <b>8602904840</b> | 0,001        |
|  |   | black Aus         | <b>8602916840</b> | 0,001        |
|  |   | red STOP          | <b>8602903840</b> | 0,001        |
|  |   | black STOP        | <b>8602915840</b> | 0,001        |
|  |   | green START       | <b>8602909840</b> | 0,001        |
|  |   | white START       | <b>8602928840</b> | 0,001        |
|  |   | blue RESET        | <b>8602930840</b> | 0,001        |
|  |   | black I 0         | <b>8602913840</b> | 0,001        |
|  |   | black ↗           | <b>8602912840</b> | 0,001        |
| black ↑  | <b>8602911840</b>   | 0,001             |                   |              |



| Accessories and spare parts   |   |   |                   |                   |       |    |
|---|---|---|-------------------|-------------------|-------|----|
| Designation   | Illustration  | Description   | Ordering code     | Weight kg         |       |    |
| Spare keys  | <br>10545E00   | for all key-operated buttons / key-operated switches      |                   |                   |       |    |
|   |   | standard locking MS1                                      | <b>3746050</b>    | 0,008             |       |    |
|   |   | special locking MS2 ... MS 20 (specify as text)           | <b>3746060</b>    | 0,006             |       |    |
| Special key for actuators   | <br>05111E00   | to tighten moulded locknut                                | <b>8030901400</b> | 0,025             |       |    |
| Protective shroud against accidental actuation                                | <br>05752E00   | for actuator  | 8602/-003         | <b>8602801286</b> | 0,072 |    |
|   |   |   | 8602/-009         |                   |       |    |
|   |   |   | 8602/-010         |                   |       |    |
| Lock fitment fixture for idle mushroom stay-put button                        | <br>05751E00   | for actuator  | 8602/-010         | <b>8602802286</b> | 0,089 |    |
| Lock fitment for non-actuated pushbutton or actuated mushroom stay-put button | <br>05751E00  | for actuator  | 8602/-001         | <b>8602803286</b> | 0,081 |    |
|   |   |   | 8602/-002         |                   |       |    |
|   |   |   | 8602/-010         |                   |       |    |
| Lock fitment for actuated pushbutton  | <br>05749E00 | for actuator  | 8602/-001         | <b>8602804286</b> | 0,028 |    |
| Lock fitment for non-actuated pushbutton                                      | <br>05748E00 | for actuator  | 8602/-001         | <b>8602805286</b> | 0,034 |    |
| Lock fitment for actuated mushroom stay-put button                            | <br>05747E00 | for actuator  | 8602/-010         | <b>8602806286</b> | 0,105 |    |
|   |   |   |                   |                   |       |    |
| Additional symbol label   | <br>05543E00 | Label mount, size 1, without symbol label                 |                   | <b>8602904800</b> | 0,002 |    |
|   |   | Label mount, size 2, without symbol label                 |                   | <b>8602907800</b> | 0,003 |    |
|   |   | for actuators to fit standard $\varnothing$ 30,5 mm holes |                   |                   |       | -- |
|   |   | with text, please specify text:                           |                   |                   |       |    |
|   |   | Text:   | HAND - 0 - AUTO   | I - 0 - II        |       |    |
|   | OFF - • - ON  | 0 - I - II  |                   |                   |       |    |
|   | 0 - I   | 0 - Operation - I   |                   |                   |       |    |
|   | I - II  | 0 - • - I   |                   |                   |       |    |
|   |   | additional labels: plain                                  |                   |                   |       |    |
| Background disc, yellow   | <br>05024E00 | $\varnothing$ 38 mm                                       |                   | <b>8030901850</b> | 0,001 |    |
|   |   | $\varnothing$ 55 mm                                       |                   | <b>8030978850</b> | 0,002 |    |
|   |   | rectangular (45 mm x 70 mm)                               |                   | <b>8602925850</b> | 0,001 |    |

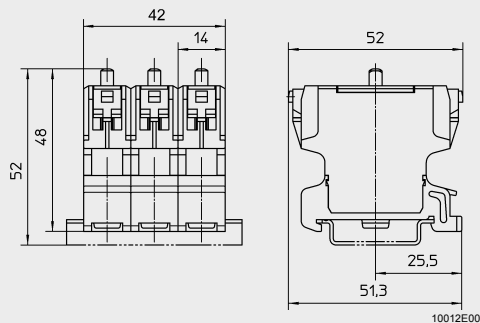


### Dimension drawings (all dimensions in mm) - subject to alterations

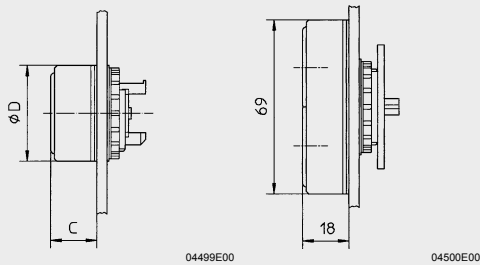


8082 Contact element, single, assembly codes 021 and 022

8082 Contact elements, double, assembly codes 060, 061 and 062

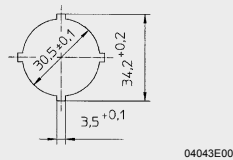


8082 Contact elements, triple, assembly codes 760, 761, 762 and 763



8602 Actuator for contact elements

8602 Actuator for double pushbutton



| Actuator                               | Assembly code | Dimensions [mm] |    |
|--|---------------|-----------------|----|
|  |               | C               | D  |
| Pushbutton                             | 001           | 18              | 38 |
| Mushroom button                        | 003           | 31              | 38 |
| Selector switch                        | 005           | 32              | 38 |
| Key-operated button                    | 007           | 27              | 38 |
| Key-operated switch                    | 008           | 23              | 38 |
|  |               | 23              | 38 |
| Mushroom stay-put button with key lock | 009           | 40              | 38 |
|  | 006           | 40              | 38 |
| Mushroom stay-put button               | 010           | 31              | 38 |
|  | 012           | 31              | 38 |
|  | 015           | 31              | 55 |
| Closure part                           | 733           | 17              | 38 |
| Rotary actuator, small                 | 726           | 31              | 38 |
|  | 727           | 31              | 38 |
| Illuminated pushbutton                 | 735           | 18              | 38 |

Cut-out details

We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.