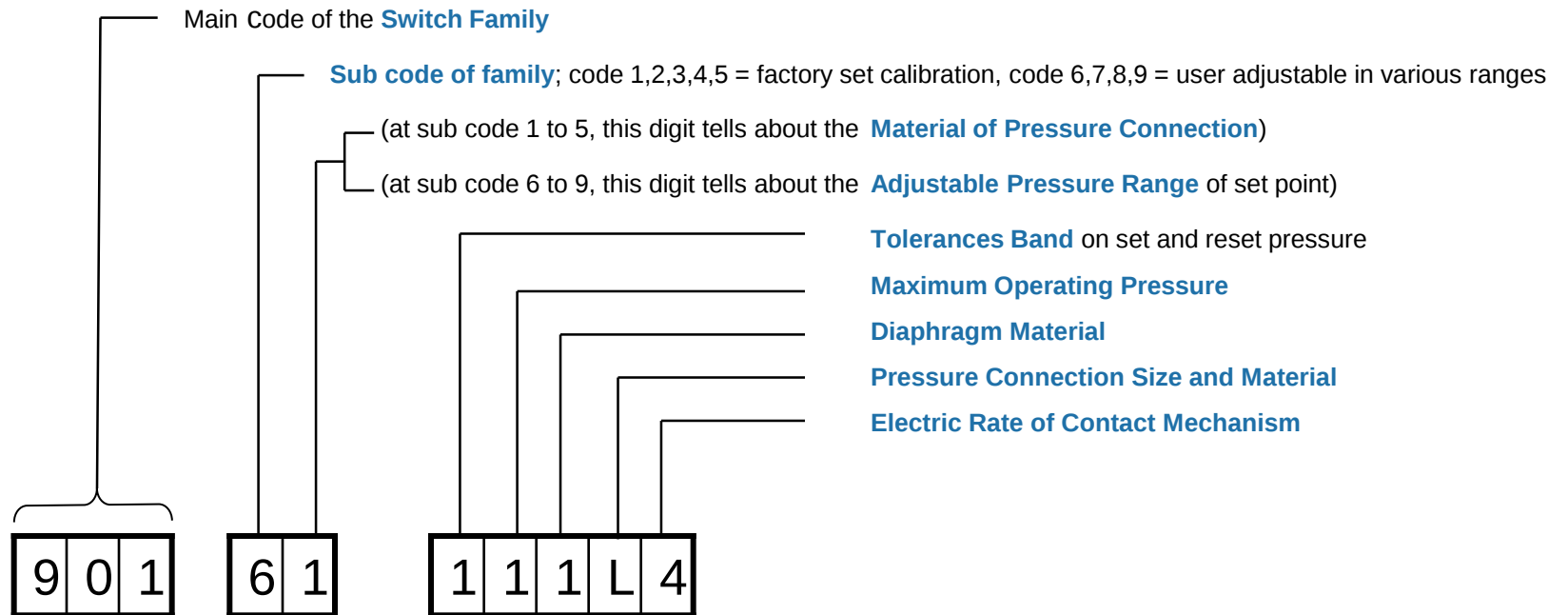


# Order Code for Beck Pressure Switches 901, 901 Prescal® and 903



Beck Sensortechnik GmbH  
Steinenbronn, Germany

[www.beck-switch.com](http://www.beck-switch.com)



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|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | L | 4 |
|---|---|---|---|---|---|---|---|---|---|

**Switch family:** 901 Mechanical Pressure Switch family 901

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 9 | 0 | 1 | 6 | 1 | 1 | 1 | 1 | L | 4 |
|---|---|---|---|---|---|---|---|---|---|

**Sub code family:**

|   |                                                                                                          |
|---|----------------------------------------------------------------------------------------------------------|
| 1 | Factory-set over-pressure from 5 mbar up to 1.000 mbar; with a max. operating pressure of 0.5 or 1.0 bar |
| 2 | Factory-set vacuum from -5 mbar to -900mbar; with a max. operating pressure of 0.5 bar or 1.0 bar        |
| 3 | Factory-set differential pressure from 5 up to 50 mbar: with a max. operating pressure of 100 mbar       |
| 4 | Factory-set over-pressure from 500 mbar up to 3 bar: with a max. operating pressure of 10 bar            |
| 5 | Factory-set high-pressure from 1 bar up to 12 bar: with a max. operating pressure of 25 bar              |
| 6 | Adjustable pressure range from 5 mbar up to 3 bar: with max. operating pressure 0.5 bar, 1 bar or 7 bar  |
| 7 | Adjustable vacuum range from -5 to -700 mbar: with max. operating pressure 0,5 bar, 1,0 bar              |
| 8 | Adjustable differential pressure range (from 5 to 50 mbar: with a max. operating pressure of 100 mbar    |
| 9 | Adjustable high-pressure range from 1,0 bar up to 12 bar: with a max operating pressure of 25 bar        |

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | L | 4 |
|---|---|---|---|---|---|---|---|---|---|

**Material of Pressure Connection:** (only for Factory-set Pressure Switches of **Family Sub Code 1...5**)

- |   |                                                                |
|---|----------------------------------------------------------------|
| 0 | plastic (could be PA6, PPS, PVDF)                              |
| 1 | metal (could be brass, brass nickel-plated or stainless steel) |

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## Adjustable Pressure Ranges

(only for the user adjustable Pressure Switches 901 Prescal® of the **Family Sub Codes 6...9**)



| Code | type | range              |
|------|------|--------------------|
| 1    | (61) | 5.....20 mbar      |
| 2    | (62) | 10.....50 mbar     |
| 3    | (63) | 25.....100 mbar    |
| 4    | (64) | 50.....250 mbar    |
| 5    | (65) | 100.....500 mbar   |
| 6    | (66) | 250...1.000 mbar   |
| 7    | (67) | 500...1.500 mbar   |
| 8    | (68) | 1.000...3.000 mbar |

| Code | type | range              |
|------|------|--------------------|
| 1    | (71) | -5.....-20 mbar    |
| 2    | (72) | -10.....-50 mbar   |
| 3    | (73) | -25.....-100 mbar  |
| 4    | (74) | -50.....-125 mbar  |
| 5    | (75) | -75.....-200 mbar  |
| 6    | (76) | -100.....-300 mbar |
| 7    | (77) | -200.....-500 mbar |
| 8    | (78) | -300.....-700 mbar |

|   |      |                  |
|---|------|------------------|
| 1 | (91) | 1.0.....6.0 bar  |
| 2 | (92) | 4.0 .....9.0 bar |
| 3 | (93) | 7.0....12.0 bar  |

|   |      |                |
|---|------|----------------|
| 1 | (81) | 5.....20 mbar  |
| 2 | (82) | 10.....50 mbar |

For detailed information about available ranges and max. operating pressure see our datasheet for Adjustable Pressure Switches 901 Prescal®

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|   |   |   |
|---|---|---|
| 9 | 0 | 1 |
|---|---|---|

|   |   |
|---|---|
| 6 | 1 |
|---|---|

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 1 | 1 | L | 4 |
|---|---|---|---|---|

**Tolerance band on Set and Reset Pressure:** 1 standard precision  $\pm 10\%$

|   |   |   |
|---|---|---|
| 9 | 0 | 1 |
|---|---|---|

|   |   |
|---|---|
| 6 | 1 |
|---|---|

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 1 | 1 | L | 4 |
|---|---|---|---|---|

|                                                            |   |                                                                             |
|------------------------------------------------------------|---|-----------------------------------------------------------------------------|
| <b>Maximum Operating Pressure:</b><br>(refer to datasheet) | 1 | standard                                                                    |
|                                                            | 2 | extended max. pos. working pressure and standard max. neg. working pressure |
|                                                            | 3 | extended max. pos. working pressure and extended max. neg. working pressure |
|                                                            | 4 | standard max. pos. working pressure and extended max. neg. working pressure |

|   |   |   |
|---|---|---|
| 9 | 0 | 1 |
|---|---|---|

|   |   |
|---|---|
| 6 | 1 |
|---|---|

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 1 | 1 | L | 4 |
|---|---|---|---|---|

|                            |    |                                                                                                                        |   |   |   |   |   |
|----------------------------|----|------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|
| <b>Diaphragm Material:</b> | 1  | NBR                                                                                                                    | 9 | 0 | 1 | 6 | 1 |
|                            | 2  | EPDM                                                                                                                   |   |   |   |   |   |
|                            | 3  | Silicone (VMQ)                                                                                                         |   |   |   |   |   |
|                            | 4  | FKM Viton®                                                                                                             |   |   |   |   |   |
|                            | 5  | NBR for gas switches with DVGW certificate                                                                             |   |   |   |   |   |
|                            | 6  | Silicone (VMQ) with Parylene® C coating                                                                                |   |   |   |   |   |
|                            | 7  | FKM special for saturated steam up to max. 130°C                                                                       |   |   |   |   |   |
|                            | 8* | EPDM according to FDA 21-CFR                                                                                           |   |   |   |   |   |
|                            | 9  | Silikon with FDA / KTW / W270 approval (901.51/901.91 till 901.93 is EPDM.<br>901.41/ 901.66 till 901.68 is Silicone.) |   |   |   |   |   |

\*obsolete

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9 0 1 6 1 1 1 L 4

## Pressure Connection Size and Material

| Code             | Material                     | Shape                                                                    | Size            | Mounting Bracket |
|------------------|------------------------------|--------------------------------------------------------------------------|-----------------|------------------|
| A                | Polyamide PA6                | Tube                                                                     | 6.0 mm          | 6405             |
| B                | Polyamide PA6                | Tube                                                                     | 6.5 mm          | 6405             |
| C                | Polyamide PA6                | Tube                                                                     | 10 mm           | 6405             |
| D                | Polyamide PA6                | Thread                                                                   | G1/8            | 6404             |
| E                | Polyamide PA6                | Thread                                                                   | M10x1           | 6404             |
| F                | PPS                          | Tube                                                                     | 6.5 mm          | 6405             |
| G                | PPS                          | Tube                                                                     | 10 mm           | 6405             |
| H                | PVDF                         | Thread                                                                   | M10x1           | 6404             |
| J                | PVDF                         | Thread                                                                   | G1/8            | 6404             |
| K                | PVDF                         | Thread                                                                   | G1/4            | 6403             |
| L                | CuZn40 (brass)               | Thread                                                                   | G1/4            | 6403             |
| M                | CuZn40 (brass)               | Thread                                                                   | G1/8            | 6404             |
| N                | CuZn40 (brass)               | Thread                                                                   | M10x1           | 6404             |
| O                | CuZn40 (brass)               | Thread                                                                   | G3/8            | n.a.             |
| P                | AISI 316 (1.4401 or 1.4404)  | Thread                                                                   | M10x1           | 6404             |
| Q                | AISI 316 (1.4401 or 1.4404)  | Thread                                                                   | G1/8            | 6404             |
| R                | AISI 316 (1.4401 or 1.4404)  | Thread                                                                   | G1/4            | 6403             |
| S                | CuZn40 (brass)               | Thread                                                                   | G1/2            | n.a.             |
| T                | PP                           | Thread                                                                   | M10x1           | 6404             |
| U                | PP                           | Tube                                                                     | 6.5 mm          | 6405             |
| V                | CuZn40 (brass) nickel-plated | Thread                                                                   | G1/4            | 6403             |
| W                | Polyamide PA6                | Tube                                                                     | 5.0 mm          | 6405             |
| X                | Various plastics or metals   | Special versions with various shapes and one or more pressure connectors | Various         | n.a.             |
| Z (only for 903) | PPS                          | Tube and thread combination                                              | 6.5 mm and G1/4 | 6403             |

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|---|---|---|---|---|---|---|---|---|---|
| 9 | 0 | 1 | 6 | 1 | 1 | 1 | 1 | L | 4 |
|---|---|---|---|---|---|---|---|---|---|

|                                                                |   |               |                 |                              |
|----------------------------------------------------------------|---|---------------|-----------------|------------------------------|
| <b>Max. electrical rates for contacts:</b><br>(for ohmic load) | 1 | 0,1 A / 30 mA | 24 VAC / 24 VDC | gold-plated                  |
|                                                                | 2 | 6 A           | 250 VAC         | AgCdO, for inductive loads   |
|                                                                | 3 | 10 A          | 250 VAC         | AgCdO, for inductive loads   |
|                                                                | 4 | 6 A           | 250 VAC         | AgNi, standard               |
|                                                                | 5 | 10 A          | 250 VAC         | AgNi, standard               |
|                                                                | 6 | 60 mA         | 30 VDC          | gold-plated for ATEX version |
|                                                                | 7 | 60 mA         | 30 VDC          | AgNi for ATEX version        |

Example 1: ♦ Pressure Switch Family (901.)  
 ♦ Factory-set over pressure at 20 mbar (1)  
 ♦ metal pressure connection (1)  
 ♦ Tolerance Band +- 10% (1)  
 ♦ Diaphragm material NBR (1)  
 ♦ Max. operating pressure 0,5 bar (1)  
 ♦ Pressure connection PA 6.5mm tube (B)  
 ♦ Electrical rating 6A / 250 VAC (4)

Example 2: ♦ Pressure Switch Family (901.)  
 ♦ Adjustable over-pressure range (6)  
 ♦ Pressure range 5...20 mbar (1).  
 ♦ Tolerance Band +- 10% (1)  
 ♦ Diaphragm material NBR (1)  
 ♦ Max. operating pressure 0,5 bar (1)  
 ♦ Pressure connection CuZn 40- G1/4 (L)  
 ♦ Electrical rating 6A / 250 VAC (4)

In addition it is necessary to tell the calibration of set and reset pressure, i.e. switching on increasing pressure at 20 mbar, Switching back on decreasing pressure at 10 mbar.