

## PRZETWORNIK CIŚNIENIA G1/4"

Seria 0601 i 0602

0602102411002

Przetwornik Ciśnienia 0..100 bar G1/4 4..20 mA M12x1



- Nieduże wymiary
- Przyłącze ciśnieniowe i obudowa ze stali nierdzewnej



### OPIS PRODUKTU

Przetwornik serii 0601/0602 marki Suco jest niedużym, kompaktowym i ekonomicznym rozwiązaniem do monitorowania ciśnienia. Oferuje sześć standardowych zakresów ciśnienia z opcjami czterech różnych złączy elektrycznych oraz sygnał wyjściowy 0-10 V lub 4-20 mA.

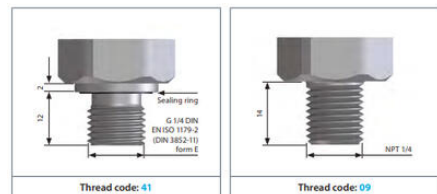
### SPECYFIKACJA TECHNICZNA

|                                                 |                                                              |
|-------------------------------------------------|--------------------------------------------------------------|
| <b>Ciśnienie rozrywające</b>                    | 300 bar                                                      |
| <b>Czas reakcji</b>                             | 2 ms                                                         |
| <b>Masa</b>                                     | 80 g                                                         |
| <b>Materiał części stykających się z medium</b> | Stal nierdzewna 1.4305, Ceramika, NBR                        |
| <b>Materiał obudowy</b>                         | Stal nierdzewna 1.4305                                       |
| <b>Max. temperatura medium</b>                  | 100 °C                                                       |
| <b>Max. zakresu ciśnienia</b>                   | 100 bar                                                      |
| <b>Min. temperatura medium</b>                  | -30 °C                                                       |
| <b>Min. zakresu ciśnienia</b>                   | 0 bar                                                        |
| <b>Napięcie zasilania DC max.</b>               | 32 V DC                                                      |
| <b>Napięcie zasilania DC min.</b>               | 9,6 V DC                                                     |
| <b>Odporność na wibracje</b>                    | 20 g; 4..2000 Hz fala sinusoidalna, DIN EN 60068-2-6         |
| <b>Odporność na wstrząsy</b>                    | 500 m/s <sup>2</sup> ; 11 ms półsinusoidy; DIN EN 60068-2-27 |
| <b>Podłączenie</b>                              | G1/4-E                                                       |

|                          |                         |
|--------------------------|-------------------------|
| Podłączenie elektryczne  | Złącze M12 x 1 4-pinowe |
| Stopień ochrony IP       | IP67                    |
| Temperatura otoczenia do | 100 °C                  |
| Temperatura otoczenia od | -30 °C                  |
| Typ sygnału              | 4–20 mA                 |
| Wzrost ciśnienia         | 1 bar/ms                |



| <b>DIN EN 175301-803-A</b><br><br><table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>ve</sub></td> <td>U<sub>ve</sub></td> </tr> <tr> <td>2</td> <td>Gnd</td> <td>I<sub>sig</sub></td> </tr> <tr> <td>3</td> <td>U<sub>sig</sub></td> <td>nc*</td> </tr> </table> <p>IP65<br/> x – 60 mm without coupler socket<br/> x – 77 mm with coupler socket<br/> Order number: 013</p> | Pin              | 0601             | 0602 | 1 | U <sub>ve</sub>  | U <sub>ve</sub> | 2 | Gnd | I <sub>sig</sub> | 3 | U <sub>sig</sub> | nc*             | <b>M 12 – DIN EN 61076-2-101 A</b><br><br><table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>ve</sub></td> <td>U<sub>ve</sub></td> </tr> <tr> <td>2</td> <td>U<sub>sig</sub></td> <td>nc*</td> </tr> <tr> <td>3</td> <td>Gnd</td> <td>I<sub>sig</sub></td> </tr> <tr> <td>4</td> <td>nc*</td> <td>nc*</td> </tr> </table> <p>IP67<br/> x – 54 mm<br/> Order number: 002</p> | Pin | 0601 | 0602 | 1 | U <sub>ve</sub> | U <sub>ve</sub> | 2 | U <sub>sig</sub> | nc* | 3 | Gnd              | I <sub>sig</sub> | 4 | nc* | nc* | <b>ISO 15170-A1-4.1</b><br><br><table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>ve</sub></td> <td>U<sub>ve</sub></td> </tr> <tr> <td>2</td> <td>Gnd</td> <td>nc*</td> </tr> <tr> <td>3</td> <td>U<sub>sig</sub></td> <td>I<sub>sig</sub></td> </tr> <tr> <td>4</td> <td>nc*</td> <td>nc*</td> </tr> </table> <p>IP67, IP6X0K<br/> x – 56 mm<br/> Order number: 004</p> | Pin | 0601 | 0602 | 1 | U <sub>ve</sub> | U <sub>ve</sub> | 2 | Gnd | nc* | 3 | U <sub>sig</sub> | I <sub>sig</sub> | 4 | nc* | nc* |
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| Pin                                                                                                                                                                                                                                                                                                                                                                                                                         | 0601             | 0602             |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>ve</sub>  | U <sub>ve</sub>  |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
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| 3                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>sig</sub> | nc*              |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| Pin                                                                                                                                                                                                                                                                                                                                                                                                                         | 0601             | 0602             |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>ve</sub>  | U <sub>ve</sub>  |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>sig</sub> | nc*              |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                           | Gnd              | I <sub>sig</sub> |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                           | nc*              | nc*              |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
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| 1                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>ve</sub>  | U <sub>ve</sub>  |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
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| 3                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>sig</sub> | I <sub>sig</sub> |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
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| <b>AMP Superseal 1.5*</b><br><br><table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>sig</sub></td> <td>nc*</td> </tr> <tr> <td>2</td> <td>Gnd</td> <td>I<sub>sig</sub></td> </tr> <tr> <td>3</td> <td>U<sub>ve</sub></td> <td>U<sub>ve</sub></td> </tr> </table> <p>IP67<br/> x – 61 mm<br/> Order number: 007</p>                                                            | Pin              | 0601             | 0602 | 1 | U <sub>sig</sub> | nc*             | 2 | Gnd | I <sub>sig</sub> | 3 | U <sub>ve</sub>  | U <sub>ve</sub> | <b>Deutsch DT04-3P</b><br><br><table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>A</td> <td>U<sub>ve</sub></td> <td>U<sub>ve</sub></td> </tr> <tr> <td>B</td> <td>Gnd</td> <td>nc*</td> </tr> <tr> <td>C</td> <td>U<sub>sig</sub></td> <td>I<sub>sig</sub></td> </tr> </table> <p>IP67, IP6X0K<br/> x – 61 mm<br/> Order number: 010</p>                                                     | Pin | 0601 | 0602 | A | U <sub>ve</sub> | U <sub>ve</sub> | B | Gnd              | nc* | C | U <sub>sig</sub> | I <sub>sig</sub> |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
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| 1                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>sig</sub> | nc*              |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                           | Gnd              | I <sub>sig</sub> |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>ve</sub>  | U <sub>ve</sub>  |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
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| A                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>ve</sub>  | U <sub>ve</sub>  |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| B                                                                                                                                                                                                                                                                                                                                                                                                                           | Gnd              | nc*              |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| C                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>sig</sub> | I <sub>sig</sub> |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |



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| Pin                                                                                                                                                                                                                                                                                                                                                                                                                         | 0601             | 0602             |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>ve</sub>  | U <sub>ve</sub>  |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
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| 3                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>sig</sub> | nc*              |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| Pin                                                                                                                                                                                                                                                                                                                                                                                                                         | 0601             | 0602             |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>ve</sub>  | U <sub>ve</sub>  |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>sig</sub> | nc*              |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                           | Gnd              | I <sub>sig</sub> |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                           | nc*              | nc*              |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| Pin                                                                                                                                                                                                                                                                                                                                                                                                                         | 0601             | 0602             |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>ve</sub>  | U <sub>ve</sub>  |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                           | Gnd              | nc*              |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>sig</sub> | I <sub>sig</sub> |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                           | nc*              | nc*              |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| <b>AMP Superseal 1.5*</b><br><br><table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>sig</sub></td> <td>nc*</td> </tr> <tr> <td>2</td> <td>Gnd</td> <td>I<sub>sig</sub></td> </tr> <tr> <td>3</td> <td>U<sub>ve</sub></td> <td>U<sub>ve</sub></td> </tr> </table> <p>IP67<br/> x – 61 mm<br/> Order number: 007</p>                                                            | Pin              | 0601             | 0602 | 1 | U <sub>sig</sub> | nc*             | 2 | Gnd | I <sub>sig</sub> | 3 | U <sub>ve</sub>  | U <sub>ve</sub> | <b>Deutsch DT04-3P</b><br><br><table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>A</td> <td>U<sub>ve</sub></td> <td>U<sub>ve</sub></td> </tr> <tr> <td>B</td> <td>Gnd</td> <td>nc*</td> </tr> <tr> <td>C</td> <td>U<sub>sig</sub></td> <td>I<sub>sig</sub></td> </tr> </table> <p>IP67, IP6X0K<br/> x – 61 mm<br/> Order number: 010</p>                                                     | Pin | 0601 | 0602 | A | U <sub>ve</sub> | U <sub>ve</sub> | B | Gnd              | nc* | C | U <sub>sig</sub> | I <sub>sig</sub> |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| Pin                                                                                                                                                                                                                                                                                                                                                                                                                         | 0601             | 0602             |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>sig</sub> | nc*              |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                           | Gnd              | I <sub>sig</sub> |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>ve</sub>  | U <sub>ve</sub>  |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| Pin                                                                                                                                                                                                                                                                                                                                                                                                                         | 0601             | 0602             |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>ve</sub>  | U <sub>ve</sub>  |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| B                                                                                                                                                                                                                                                                                                                                                                                                                           | Gnd              | nc*              |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |
| C                                                                                                                                                                                                                                                                                                                                                                                                                           | U <sub>sig</sub> | I <sub>sig</sub> |      |   |                  |                 |   |     |                  |   |                  |                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |      |   |                 |                 |   |                  |     |   |                  |                  |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |      |   |                 |                 |   |     |     |   |                  |                  |   |     |     |

