



## PERFORMANCE-SARJA

0601/0602-sarja

0601161411002

Painelähetin 0...16 bar

- Kompakti koko
- Painealue 250 bar asti
- 4...20 mA tai 0...10 V
- Tarkkuus 1 %



### TUOTEKUVAUS

Tälle anturisarjalle voidaan tehdä plasmapuhdistus, jolloin anturia voidaan käyttää happisovelluksissa.

Anturit toimitetaan tässä tapauksessa yksittäispakattuina.

Kysy lisää liitinvaihtoehtoista ja muista ominaisuuksista.

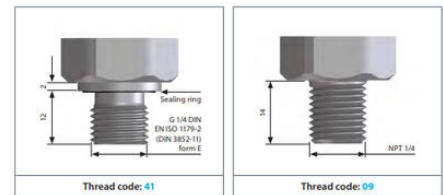
### TEKNISET TIEDOT

|                                                             |                                                                 |
|-------------------------------------------------------------|-----------------------------------------------------------------|
| <b>Aineen kanssa kosketuksissa olevien osien materiaali</b> | Ruostumaton teräs 1.4305, Keraaminen, NBR                       |
| <b>IP-luokka</b>                                            | IP67                                                            |
| <b>Iskunkestävyys</b>                                       | 500m / s <sup>2</sup> ; 11 ms puolisiniaalto; DIN EN 60068-2-27 |
| <b>Liitäntä</b>                                             | G1/4-E                                                          |
| <b>Liitäntätyyppi</b>                                       | M12x1 4-napainen                                                |
| <b>Max. aineen lämpötila</b>                                | 100 °C                                                          |
| <b>Max. paine</b>                                           | 16 bar                                                          |
| <b>Max. syöttöjännite DC</b>                                | 32 V DC                                                         |
| <b>Max. ympäristön lämpötila</b>                            | 100 °C                                                          |
| <b>Min. aineen lämpötila</b>                                | -30 °C                                                          |
| <b>Min. painealue</b>                                       | 0 bar                                                           |
| <b>Min. syöttöjännite DC</b>                                | 11 V DC                                                         |

|                           |                                              |
|---------------------------|----------------------------------------------|
| Min. ympäristön lämpötila | -30 °C                                       |
| Murtumispaine             | 60 bar                                       |
| Paineen nousu             | 1 bar/ms                                     |
| Paino                     | 80 g                                         |
| Rungon materiaali         | Ruostumaton teräs 1.4305                     |
| Signaalityyppi            | 0-10 V                                       |
| Tärinänkesto              | 20g: 4...2000 Hz siniaalto, DIN EN 60068-2-6 |
| Vasteaika                 | 2 ms                                         |



| <b>DIN EN 175301-803-A</b><br> <table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>lv</sub>+</td> <td>U<sub>lv</sub>+</td> </tr> <tr> <td>2</td> <td>Gnd</td> <td>I<sub>lv</sub>+</td> </tr> <tr> <td>3</td> <td>U<sub>lv</sub>+</td> <td>nc*</td> </tr> </table> <p>IP65</p> <p>x – 60 mm without coupler socket<br/>x – 77 mm with coupler socket</p> <p><b>Order number: 013</b></p> | Pin               | 0601              | 0602 | 1 | U <sub>lv</sub> + | U <sub>lv</sub> + | 2 | Gnd | I <sub>lv</sub> + | 3 | U <sub>lv</sub> + | nc*               | <b>M 12 – DIN EN 61076-2-101 A</b><br> <table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>lv</sub>+</td> <td>U<sub>lv</sub>+</td> </tr> <tr> <td>2</td> <td>U<sub>lv</sub>+</td> <td>nc*</td> </tr> <tr> <td>3</td> <td>Gnd</td> <td>I<sub>lv</sub>+</td> </tr> <tr> <td>4</td> <td>nc*</td> <td>nc*</td> </tr> </table> <p>IP67</p> <p>x – 54 mm</p> <p><b>Order number: 002</b></p> | Pin | 0601 | 0602 | 1 | U <sub>lv</sub> + | U <sub>lv</sub> + | 2 | U <sub>lv</sub> + | nc* | 3 | Gnd               | I <sub>lv</sub> + | 4 | nc* | nc* | <b>ISO 15170-A1-4.1</b><br> <table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>lv</sub>+</td> <td>U<sub>lv</sub>+</td> </tr> <tr> <td>2</td> <td>Gnd</td> <td>nc*</td> </tr> <tr> <td>3</td> <td>U<sub>lv</sub>+</td> <td>I<sub>lv</sub>+</td> </tr> <tr> <td>4</td> <td>nc*</td> <td>nc*</td> </tr> </table> <p>IP67, IP6X3K</p> <p>x – 56 mm</p> <p><b>Order number: 004</b></p> | Pin | 0601 | 0602 | 1 | U <sub>lv</sub> + | U <sub>lv</sub> + | 2 | Gnd | nc* | 3 | U <sub>lv</sub> + | I <sub>lv</sub> + | 4 | nc* | nc* |
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| Pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0601              | 0602              |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U <sub>lv</sub> + | U <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gnd               | I <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U <sub>lv</sub> + | nc*               |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| Pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0601              | 0602              |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U <sub>lv</sub> + | U <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U <sub>lv</sub> + | nc*               |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gnd               | I <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | nc*               | nc*               |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
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| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U <sub>lv</sub> + | U <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gnd               | nc*               |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U <sub>lv</sub> + | I <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
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| <b>AMP Superseal 1.5*</b><br> <table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>1</td> <td>U<sub>lv</sub>+</td> <td>nc*</td> </tr> <tr> <td>2</td> <td>Gnd</td> <td>I<sub>lv</sub>+</td> </tr> <tr> <td>3</td> <td>U<sub>lv</sub>+</td> <td>U<sub>lv</sub>+</td> </tr> </table> <p>IP67</p> <p>x – 61 mm</p> <p><b>Order number: 007</b></p>                                                          | Pin               | 0601              | 0602 | 1 | U <sub>lv</sub> + | nc*               | 2 | Gnd | I <sub>lv</sub> + | 3 | U <sub>lv</sub> + | U <sub>lv</sub> + | <b>Deutsch DT04-3P</b><br> <table border="1"> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> <tr> <td>A</td> <td>U<sub>lv</sub>+</td> <td>U<sub>lv</sub>+</td> </tr> <tr> <td>B</td> <td>Gnd</td> <td>nc*</td> </tr> <tr> <td>C</td> <td>U<sub>lv</sub>+</td> <td>I<sub>lv</sub>+</td> </tr> </table> <p>IP67, IP6X3K</p> <p>x – 61 mm</p> <p><b>Order number: 010</b></p>                                                    | Pin | 0601 | 0602 | A | U <sub>lv</sub> + | U <sub>lv</sub> + | B | Gnd               | nc* | C | U <sub>lv</sub> + | I <sub>lv</sub> + |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| Pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0601              | 0602              |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U <sub>lv</sub> + | nc*               |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gnd               | I <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U <sub>lv</sub> + | U <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| Pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0601              | 0602              |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U <sub>lv</sub> + | U <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gnd               | nc*               |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | U <sub>lv</sub> + | I <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |



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| Pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0601              | 0602              |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | U <sub>lv</sub> + | U <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Gnd               | I <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | U <sub>lv</sub> + | nc*               |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| Pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0601              | 0602              |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | U <sub>lv</sub> + | U <sub>lv</sub> + |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | U <sub>lv</sub> + | nc*               |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
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| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | nc*               | nc*               |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| Pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0601              | 0602              |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
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| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | nc*               | nc*               |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| <b>AMP Superseal 1.5*</b><br> <table border="1"> <thead> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>U<sub>lv</sub>+</td> <td>nc*</td> </tr> <tr> <td>2</td> <td>Gnd</td> <td>I<sub>lv</sub>+</td> </tr> <tr> <td>3</td> <td>U<sub>lv</sub>+</td> <td>U<sub>lv</sub>+</td> </tr> </tbody> </table> <p>IP67<br/> x – 61 mm<br/> <b>Order number: 007</b></p>                                                            | Pin               | 0601              | 0602 | 1 | U <sub>lv</sub> + | nc*               | 2 | Gnd | I <sub>lv</sub> + | 3 | U <sub>lv</sub> + | U <sub>lv</sub> + | <b>Deutsch DT04-3P</b><br> <table border="1"> <thead> <tr> <th>Pin</th> <th>0601</th> <th>0602</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>U<sub>lv</sub>+</td> <td>U<sub>lv</sub>+</td> </tr> <tr> <td>B</td> <td>Gnd</td> <td>nc*</td> </tr> <tr> <td>C</td> <td>U<sub>lv</sub>+</td> <td>I<sub>lv</sub>+</td> </tr> </tbody> </table> <p>IP67, IP6X3K<br/> x – 61 mm<br/> <b>Order number: 010</b></p>                                                     | Pin | 0601 | 0602 | A | U <sub>lv</sub> + | U <sub>lv</sub> + | B | Gnd               | nc* | C | U <sub>lv</sub> + | I <sub>lv</sub> + |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
| Pin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0601              | 0602              |      |   |                   |                   |   |     |                   |   |                   |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |      |   |                   |                   |   |                   |     |   |                   |                   |   |     |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |   |                   |                   |   |     |     |   |                   |                   |   |     |     |
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