



03

|                                               |                                   |                                                      |                   |                   |                   |                 |                 |                             |      |      |      |  |
|-----------------------------------------------|-----------------------------------|------------------------------------------------------|-------------------|-------------------|-------------------|-----------------|-----------------|-----------------------------|------|------|------|--|
| Number of contacts                            | Standard                          | 3                                                    | 4                 | 5                 | 5S                | 6               | 7               | 7                           | 8    | 12   | 14   |  |
| Contact arrangement                           | DIN EN 61076-2-106                | 03-a                                                 | 04-a              | 05-a              | 05-b              | 06-a            | 07-a            | 07-b                        | 08-a | 12-a | 14-a |  |
| Contact arrangement                           | IEC 60130-9 <sup>1)</sup>         | yes                                                  | no                | yes               | no                | yes             | no              | yes                         | no   |      |      |  |
| Rated voltage <sup>2)</sup>                   | IEC 60664-1                       | 300 V<br>(100 V)                                     | 300 V<br>(63 V)   | 100 V<br>(32 V)   | 300 V<br>(63 V)   | 100 V<br>(32 V) | 150 V<br>(32 V) |                             |      |      |      |  |
| Rated voltage                                 | UL 1977                           | 250 V                                                |                   |                   |                   |                 |                 | 60 V                        |      |      |      |  |
| Rated impulse withstand voltage <sup>2)</sup> | IEC 60664-1                       | 1500 V<br>(840 V)                                    | 1200 V<br>(500 V) | 1500 V<br>(840 V) | 1200 V<br>(500 V) |                 |                 |                             |      |      |      |  |
| Pollution degree <sup>2)</sup>                | IEC 60664-1                       | 1 (3 <sup>3)</sup> )                                 |                   |                   |                   |                 |                 |                             |      |      |      |  |
| Installation category                         | IEC 60664-1                       | I                                                    |                   |                   |                   |                 |                 |                             |      |      |      |  |
| Insulation group                              | IEC 60664-1                       | II, 400 ≤ CTI < 600                                  |                   |                   |                   |                 |                 |                             |      |      |      |  |
| Current rating                                | IEC 60512-5-2<br>UL 1977          | 10A/+40°C                                            |                   | 7A/+40°C          |                   |                 |                 | 3A/+40°C                    |      |      |      |  |
| Insulation resistance                         | IEC 60512-3-1                     | >10 <sup>10</sup> Ohm <sup>4)</sup>                  |                   |                   |                   |                 |                 |                             |      |      |      |  |
| Contact resistance                            | IEC 60512-2-1                     | <5m Ohm                                              |                   |                   |                   |                 |                 |                             |      |      |      |  |
| Climatic category                             | IEC 60668-1                       | 40 / 100 / 56                                        |                   |                   |                   |                 |                 |                             |      |      |      |  |
| Temperatur range                              | IEC 60668-1                       | -40°C...+100°C / -40°F...+212°F                      |                   |                   |                   |                 |                 |                             |      |      |      |  |
| salt spray resistance                         | DIN IEC 60068-2-11                | 720h                                                 |                   |                   |                   |                 |                 |                             |      |      |      |  |
| IP degree                                     | IEC 60529                         | IP 69K / IP 67 / IP 65 (in mated condition)          |                   |                   |                   |                 |                 |                             |      |      |      |  |
| Insertion and withdrawal force                | IEC 60512-13-2                    | 25N                                                  | 30N               | 35N               | 50N               | 55N             | 60N             | 50N                         |      |      |      |  |
| Mechanical operation                          | IEC 60512-9-1                     | Silver ≥500 mating cycles / Gold ≥1000 mating cycles |                   |                   |                   |                 |                 |                             |      |      |      |  |
| Housing material                              |                                   | brass and / or zinc die cast, nickel plated          |                   |                   |                   |                 |                 |                             |      |      |      |  |
| Dielectric material                           |                                   | thermoplastic                                        |                   |                   |                   |                 |                 |                             |      |      |      |  |
| Contacts                                      |                                   | silver plated / gold plated                          |                   |                   |                   |                 |                 |                             |      |      |      |  |
| Termination technique                         |                                   | solder                                               |                   |                   |                   |                 |                 |                             |      |      |      |  |
| wire gauge                                    |                                   | ≤ 0,5mm <sup>2</sup> / 20 AWG                        |                   |                   |                   |                 |                 | ≤0,35mm <sup>2</sup> /24AWG |      |      |      |  |
| Flamability                                   |                                   | UL 94 V0                                             |                   |                   |                   |                 |                 |                             |      |      |      |  |
| locking system                                | IEC 60130-9<br>DIN EN 61076-2-106 | metal screw coupling; tightening torque 0,7 - 1,5 Nm |                   |                   |                   |                 |                 |                             |      |      |      |  |

<sup>1)</sup> Edition 2000-05  
<sup>2)</sup> values in brackets are according to DIN EN 61076-2-106  
<sup>3)</sup> designed acc. pollution degree 2; can be used under pollution degree 3 when the rules of IEC 60664-1 are fulfilled  
<sup>4)</sup> under operating conditions >10<sup>8</sup> Ohm

Do not connect or disconnect under load. Metal housing parts shall be securely incorporated to protected ground.  
 Remark for gold plated contacts:  
 In order to avoid brittle inter-metallic connections, gold plated terminals have to be tin-plated in the solder area.  
 All technical data have been measured in a laboratory environment and can be different during practical usage of the product. Any product information is for descriptive usage only and not legally binding; particularly the information does not constitute or provide any legal guaranties ("Beschaffungsgarantie" or "Haltbarkeitsgarantie").

|                                         |                                                                  |    |                     |                     |                     |
|-----------------------------------------|------------------------------------------------------------------|----|---------------------|---------------------|---------------------|
|                                         | 14<br>(14-a)                                                     | Ag | C091 61G014 110 2 U | C091 61G014 120 2 U | C091 61G014 130 2 U |
|                                         |                                                                  | Au | C091 61G014 210 2 U | C091 61G014 220 2 U | C091 61G014 230 2 U |
|                                         | 12<br>(12-a)                                                     | Ag | C091 61G012 110 2 U | C091 61G012 120 2 U | C091 61G012 130 2 U |
|                                         |                                                                  | Au | C091 61G012 210 2 U | C091 61G012 220 2 U | C091 61G012 230 2 U |
|                                         | 8<br>(08-a)                                                      | Ag | C091 61G008 110 2 U | C091 61G008 120 2 U | C091 61G008 130 2 U |
|                                         |                                                                  | Au | C091 61G008 210 2 U | C091 61G008 220 2 U | C091 61G008 230 2 U |
|                                         | 7<br>(07-b)                                                      | Ag | C091 61G107 110 2 U | C091 61G107 120 2 U | C091 61G107 130 2 U |
|                                         |                                                                  | Au | C091 61G107 210 2 U | C091 61G107 220 2 U | C091 61G107 230 2 U |
|                                         | 7<br>(07-a)                                                      | Ag | C091 61G007 110 2 U | C091 61G007 120 2 U | C091 61G007 130 2 U |
|                                         |                                                                  | Au | C091 61G007 210 2 U | C091 61G007 220 2 U | C091 61G007 230 2 U |
|                                         | 6<br>(06-a)                                                      | Ag | C091 61G006 110 2 U | C091 61G006 120 2 U | C091 61G006 130 2 U |
|                                         |                                                                  | Au | C091 61G006 210 2 U | C091 61G006 220 2 U | C091 61G006 230 2 U |
|                                         | 5<br>(05-b)                                                      | Ag | C091 61G105 110 2 U | C091 61G105 120 2 U | C091 61G105 130 2 U |
|                                         |                                                                  | Au | C091 61G105 210 2 U | C091 61G105 220 2 U | C091 61G105 230 2 U |
|                                         | 5<br>(05-a)                                                      | Ag | C091 61G005 110 2 U | C091 61G005 120 2 U | C091 61G005 130 2 U |
|                                         |                                                                  | Au | C091 61G005 210 2 U | C091 61G005 220 2 U | C091 61G005 230 2 U |
|                                         | 4<br>(04-a)                                                      | Ag | C091 61G004 110 2 U | C091 61G004 120 2 U | C091 61G004 130 2 U |
|                                         |                                                                  | Au | C091 61G004 210 2 U | C091 61G004 220 2 U | C091 61G004 230 2 U |
|                                         | 3<br>(03-a)                                                      | Ag | C091 61G003 110 2 U | C091 61G003 120 2 U | C091 61G003 130 2 U |
|                                         |                                                                  | Au | C091 61G003 210 2 U | C091 61G003 220 2 U | C091 61G003 230 2 U |
| Contact arrangement View on mating side | Number of contacts (Contact arrangement acc. DIN EN 61076-2-106) |    | a = 10,5 mm         | a = 14,5 mm         | a = 19,5 mm         |

Gewicht (errechnet) / Calc WT: 13,72 g  
 Zul. Abw./Tolerances: ISO 2768-mH  
 Prüfmäß / Testdimension  
 Teileindex / Partindexnumber:  
 Bagatelle change:  
 Maßstab / Scale: 2:1  
 A3  
**CUSTOMER DRAWING**  
 Geratedose Rückwandmontage  
 female receptacle rear mount.  
 M C091 61GXXX XX0 2 U  
 Blatt/Sheet 1  
 1 Bl.  
 Ers. f. l. Replacement for: M-C091 61GXXX X10 2 U Rev.01  
 Amphenol Tuchel Industrial GmbH  
 03 202000001 21.10.2020 MCARL  
 02 201500721 14.10.2015 MTOLK  
 Index Änderung/Description Datum/Date Name

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