

|         |   |                        |   |
|---------|---|------------------------|---|
| Product | <b>Contacts: 4+PE, Female panel mount connector with single wires and UL approval, PG 11, PG 13.5, M20 x 1.5 4+PE</b> | Area<br>Article number | <b>7/8" Series 820/870<br/>09 2450 320 05</b> |
| Pole    |   |                        |   |

| Illustration | Scale drawing | Contact Arrangement  |
|--------------|---------------|--|
|              |               | <p>1 schwarz/black<br/>2 blau/blue<br/>PEgrün/gelb/green/yellow<br/>4 braun/brown<br/>5 weiß/white</p> |

You can find the assembly instruction on the next page.

## Technical data

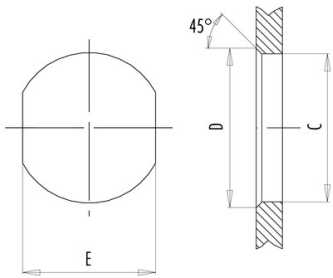
|  |                                       |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
|--|---------------------------------------|------------------|------------------------------|--------------------------|---------------------|-----------------------|--------|----------------------|----------------------|----------------------------|----|------------------------------|-------|---|--------|--|--------------|-----------------|-----------|--------------------------|----------------|---------------------|---------------------------------------|----------------------|-----|----------------|-----|----------------------|-----|--------------------|--------|----------------|---|----------------------|------|----------------------|--------------------|
| <h3 style="color: #e91e63; margin: 0;">Common values</h3> <table border="0"> <tr><td>Connector Design</td><td>Female panel mount connector</td></tr> <tr><td>Connector locking system</td><td>Screws 7/8" - 16 UN</td></tr> <tr><td>Termination</td><td>Litzen</td></tr> <tr><td>Wire gauge (mm)</td><td>0.82 mm<sup>2</sup></td></tr> <tr><td>Wire gauge (AWG)</td><td>18</td></tr> <tr><td>Upper temperature</td><td>85 °C</td></tr> <tr><td>Lower temperature</td><td>-25 °C</td></tr> </table> |                                       | Connector Design | Female panel mount connector | Connector locking system | Screws 7/8" - 16 UN | Termination           | Litzen | Wire gauge (mm)      | 0.82 mm <sup>2</sup> | Wire gauge (AWG)           | 18 | Upper temperature            | 85 °C | Lower temperature   | -25 °C | <h3 style="color: #e91e63; margin: 0;">Electrical values</h3> <table border="0"> <tr><td>Rated voltage</td><td>300 V</td></tr> <tr><td>Rated impulse voltage</td><td>2500 V</td></tr> <tr><td>Pollution degree</td><td>3</td></tr> <tr><td>Overvoltage category</td><td>III</td></tr> <tr><td>Material group</td><td>III</td></tr> <tr><td>Rated current (40°C)</td><td>8 A</td></tr> <tr><td>Volume resistivity</td><td>≤ 5 mΩ</td></tr> <tr><td>EMV compliance</td><td>-</td></tr> <tr><td>Degree of protection</td><td>IP67</td></tr> <tr><td>Mechanical operation</td><td>&gt; 50 mating cycles</td></tr> </table> |              | Rated voltage   | 300 V     | Rated impulse voltage    | 2500 V         | Pollution degree    | 3                                     | Overvoltage category | III | Material group | III | Rated current (40°C) | 8 A | Volume resistivity | ≤ 5 mΩ | EMV compliance | - | Degree of protection | IP67 | Mechanical operation | > 50 mating cycles |
| Connector Design   | Female panel mount connector          |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Connector locking system   | Screws 7/8" - 16 UN                   |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Termination  | Litzen                                |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Wire gauge (mm)  | 0.82 mm <sup>2</sup>                  |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Wire gauge (AWG)   | 18                                    |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Upper temperature  | 85 °C                                 |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Lower temperature  | -25 °C                                |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Rated voltage  | 300 V                                 |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Rated impulse voltage  | 2500 V                                |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Pollution degree   | 3                                     |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Overvoltage category   | III                                   |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Material group   | III                                   |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Rated current (40°C)   | 8 A                                   |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Volume resistivity   | ≤ 5 mΩ                                |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| EMV compliance   | -                                     |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Degree of protection   | IP67                                  |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Mechanical operation   | > 50 mating cycles                    |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| <h3 style="color: #e91e63; margin: 0;">Cable data</h3> <table border="0"> <tr><td>material housing</td><td>-</td></tr> <tr><td>Insulation single lead</td><td>-</td></tr> <tr><td>Single lead structure</td><td>-</td></tr> <tr><td>Conductor resistance</td><td>-</td></tr> <tr><td>Bending radius cable fixed</td><td>-</td></tr> <tr><td>Bending radius cable movable</td><td>-</td></tr> </table>  |                                       | material housing | -                            | Insulation single lead   | -                   | Single lead structure | -      | Conductor resistance | -                    | Bending radius cable fixed | -  | Bending radius cable movable | -     | <h3 style="color: #e91e63; margin: 0;">Material</h3> <table border="0"> <tr><td>Material of contact</td><td>CuZn (Brass)</td></tr> <tr><td>Contact plating</td><td>Au (Gold)</td></tr> <tr><td>Material of contact body</td><td>PUR (UL 94 HB)</td></tr> <tr><td>Material of housing</td><td>Brass, nickel-plated zinc die casting</td></tr> </table> |        | Material of contact  | CuZn (Brass) | Contact plating | Au (Gold) | Material of contact body | PUR (UL 94 HB) | Material of housing | Brass, nickel-plated zinc die casting |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| material housing   | -                                     |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Insulation single lead   | -                                     |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Single lead structure  | -                                     |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Conductor resistance   | -                                     |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Bending radius cable fixed   | -                                     |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Bending radius cable movable   | -                                     |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Material of contact  | CuZn (Brass)                          |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Contact plating  | Au (Gold)                             |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Material of contact body   | PUR (UL 94 HB)                        |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |
| Material of housing  | Brass, nickel-plated zinc die casting |                  |                              |                          |                     |                       |        |                      |                      |                            |    |                              |       |   |        |  |              |                 |           |                          |                |                     |                                       |                      |     |                |     |                      |     |                    |        |                |   |                      |      |                      |                    |

fixing thread: M20 x 1.5, Contacts: 4+PE, Female panel mount connector with single wires and UL approval

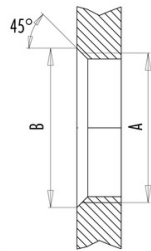
|         |  |                |                            |
|---------|--|----------------|----------------------------|
| Product | <b>Contacts: 4+PE, Female panel mount connector with single wires and UL approval, PG 11, PG 13.5, M20 x 1.5</b> | Area           | <b>7/8" Series 820/870</b> |
| Pole    | <b>4+PE</b>  | Article number | <b>09 2450 320 05</b>      |

**Installation instructions / Mounting cutout**

Mit Durchgangsbohrung/With bore hole



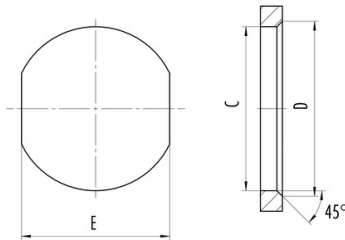
Mit Gewinde, einschraubbar/With thread to screw in



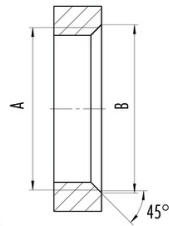
|         | A       | B    | C    | D    | E    |
|---------|---------|------|------|------|------|
| PG11    | PG11    | 20,2 | 18,7 | 20,2 | 17,0 |
| PG13,5  | PG13,5  | 22,0 | 20,5 | 22,0 | 18,8 |
| M20x1,5 | M20x1,5 | 21,6 | 20,1 | 21,6 | 17,8 |

alternativ/alternativ

Mit Durchgangsbohrung/With bore hole  
von vorn verschraubbar/front fastened



Mit Gewinde, einschraubbar/With thread to screw in



| A           | B    | C    | D    | E    |
|-------------|------|------|------|------|
| 7/8-16UN-20 | 23   | 22,4 | 23,9 | 20,2 |
| M26x1,5     | 27,3 | 26,2 | 27,7 | 24,2 |

alternativ/alternativ