

|                              |                              |                         |
|------------------------------|------------------------------|-------------------------|
| <b>3RG4013-3CD00-0XA0-PF</b> | NO + NC / Schließer + Öffner | Connector / Stecker M12 |
| <b>3RG4013-3CD00-0XB0-PF</b> | NO + NC / Schließer + Öffner | Connector / Stecker M12 |

|                          |  |                                   |
|--------------------------|--|-----------------------------------|
| <b>Size / Bauform</b>    |  | cylindrical M18 / zylindrisch M18 |
| <b>Mounting / Einbau</b> |  | embeddable / bündig               |

|                                                         |                         |                  |
|---------------------------------------------------------|-------------------------|------------------|
| <b><u>Operating distance / Schaltabstand</u></b>        |                         |                  |
| Rated operating distance / Bemessungsschaltabstand      | sn                      | 5,0 mm           |
| Effective operating distance / Realschaltabstand        | sr                      | 4,5 ... 5,5 mm   |
| Assured operating distance / Gesicherter Schaltabstand  | sa                      | 4,05 mm          |
| Standard target mild steel / Meßplatte Stahlfahne St 37 |                         | 18 x 18 x 1 mm   |
| Repeat accuracy / Reproduzierbarkeit                    | R                       | 0,15 mm          |
| Hysteresis / Hysterese                                  | H                       | 0,04 ... 1,15 mm |
| Reduction factors / Reduktionsfaktoren                  | Al:                     | 0,40             |
|                                                         | Cu:                     | 0,30             |
|                                                         | Ms:                     | 0,40             |
|                                                         | Stainl. steel / Edlst.: | 0,70             |

|                                                          |    |                                  |
|----------------------------------------------------------|----|----------------------------------|
| <b><u>Power supply voltage / Versorgungsspannung</u></b> |    |                                  |
| Rated operational voltage / Bemessungsbetriebsspannung   | Ue | 24 V DC                          |
| Operating voltage range / Betriebsspannungsbereich       | UB | 15 ... 34 V DC                   |
| No-load supply current / Leerlaufstrom                   | Io | 17 mA (24 V DC); 30 mA (34 V DC) |
| max. ripple content / zul. Restwelligkeit                |    | 10%                              |

|                                                     |    |                                                    |
|-----------------------------------------------------|----|----------------------------------------------------|
| <b><u>Output / Ausgang</u></b>                      |    |                                                    |
| Output / Ausgangsart                                |    | 4 wire DC pnp / 4 Leiter DC pnp                    |
| Rated operational current / Bemessungsbetriebsstrom | Ie | 200 mA (to / bis 50 Cel); 150 mA (to / bis 85 Cel) |
| Output voltage drop / Spannungsfall max.            | Ud | 2,5 V                                              |
| Off-state current / Reststrom                       |    | 0,01 mA                                            |
| Short-circuit strength / Kurzschlußfestigkeit       |    | built-in / eingebaut                               |
| Overload withstand capability / Überlastfestigkeit  |    | built-in / eingebaut                               |

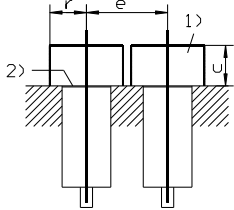
|                                                      |    |        |
|------------------------------------------------------|----|--------|
| <b><u>Times / Zeiten</u></b>                         |    |        |
| Frequency of operating cycles / Schaltfrequenz       | f  | 800 Hz |
| Time delay before availability / Bereitschaftsverzug | tv | 40 ms  |

|                                                      |    |               |
|------------------------------------------------------|----|---------------|
| <b><u>Temperatures / Temperaturen</u></b>            |    |               |
| Rated temperature / Bemessungstemperatur             | Tu | 25 Cel        |
| Ambient temperature range / zul. Umgebungstemperatur | Ta | -20...+55 Cel |
| Storage temperature range / zul. Lagertemperatur     | Ts | -40...+85 Cel |

| <b>Electrical protections /<br/>Elektrische Schutzmaßnahmen, EMV</b> |  |                          |
|----------------------------------------------------------------------|--|--------------------------|
| Reverse voltage protection /<br>Verpolungsschutz                     |  | built-in / eingebaut     |
| Wire breakage protection /<br>Drahtbruchsicherheit                   |  | built-in / eingebaut     |
| Inductive overvoltage / Induktionsschutz                             |  | built-in / eingebaut     |
| Spurious switch-on pulse /<br>Einschaltfehlimpuls                    |  | suppressed / unterdrückt |

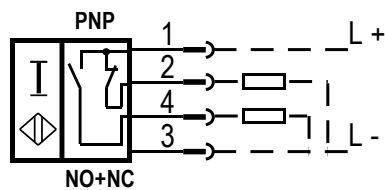
| <b>Mechanical protections /<br/>Mechanische Schutzmaßnahmen</b> |  |                                         |
|-----------------------------------------------------------------|--|-----------------------------------------|
| Degree of protection / Schutzart                                |  | IP 67                                   |
| Shock / Schockbeanspruchung                                     |  | 30 x g; 11 ms duration / Einwirkdauer   |
| Vibration / Schwingbeanspruchung                                |  | 10 bis 55 Hz, 1mm amplitude / Amplitude |
| Max. tightening torque /<br>max. Anzugsdrehmoment               |  | 20 Nm                                   |

| <b>Indicators / Anzeigen</b> |  | LED (switching status / Schaltzustand) |
|------------------------------|--|----------------------------------------|
|------------------------------|--|----------------------------------------|

| <b>Mounting conditions /<br/>Einbaubedingungen</b>                                                                                 |                            |                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Side-by-side mounting possibility /<br>Aneinanderreihbarkeit<br>Influence metallic surroundings /<br>Einfluß metallischer Umgebung | e><br>r><br>g><br>w><br>c> | <div> <div> 30 mm<br/>11 mm<br/>--<br/>--<br/>10 mm </div>  <div> <p>Remarks/Bemerkungen:</p> <p>1) free space/Freiraum</p> <p>2) sensing face/aktive Fläche</p> <p>3) 4 x on circumference/4 x am Umfang</p> </div> </div> |
| Max. Cable length /<br>max. zulässige Leitungslänge                                                                                |                            | 300 m                                                                                                                                                                                                                                                                                                           |

| <b>Design characteristics /<br/>Konstruktive Merkmale</b> |  |                              |
|-----------------------------------------------------------|--|------------------------------|
| Housing material / Gehäuse                                |  | brass / Messing              |
| Cable type / Leitungstyp                                  |  | 4 x 0,14 qmm, PUR LiYY11Y    |
| Cable length / Leitungslänge, eingegossen                 |  | 2 m                          |
| Sensing face / Ansprechfläche                             |  | front side / stirnseitig     |
| Weight / Gewicht                                          |  | Connector / Stecker: 0,05 kg |

3RG4013-3CD00-0XA0-PF / 3RG4013-3CD00-0XB0-PF:



Response characteristics / Ansprechkennlinie:

