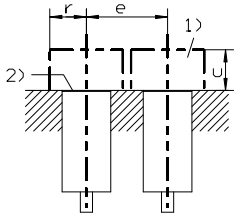


|                                                         |    |                                                    |      |                                       |      |
|---------------------------------------------------------|----|----------------------------------------------------|------|---------------------------------------|------|
| 3RG4013-0CD00-1AL0-PF                                   |    | NO + NC / Schließer + Öffner                       |      | 10 m Cable / 10 m Kabel (eingegossen) |      |
| Size / Bauform                                          |    | cylindrical M18 / zylindrisch M18                  |      |                                       |      |
| Mounting / Einbau                                       |    | embeddable / bündig                                |      |                                       |      |
|                                                         |    |                                                    |      |                                       |      |
| Operating distance / Schaltabstand                      |    |                                                    |      |                                       |      |
| 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 / Edeltst.:             | 0,70 |
|                                                         |    |                                                    |      |                                       |      |
| Power supply voltage / Versorgungsspannung              |    |                                                    |      |                                       |      |
| 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%                                                |      |                                       |      |
|                                                         |    |                                                    |      |                                       |      |
| Output / Ausgang                                        |    |                                                    |      |                                       |      |
| 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                               |      |                                       |      |
|                                                         |    |                                                    |      |                                       |      |
| Times / Zeiten                                          |    |                                                    |      |                                       |      |
| Frequency of operating cycles / Schaltfrequenz          | f  | 800 Hz                                             |      |                                       |      |
| Time delay before availability / Bereitschaftsverzug    | tv | 40 ms                                              |      |                                       |      |
|                                                         |    |                                                    |      |                                       |      |
| Temperatures / Temperaturen                             |    |                                                    |      |                                       |      |
| Rated temperature / Bemessungstemperatur                | Tu | 25 Cel                                             |      |                                       |      |
| Ambient temperature range / zul. Umgebungstemperatur    | Ta | -25...+85 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 |

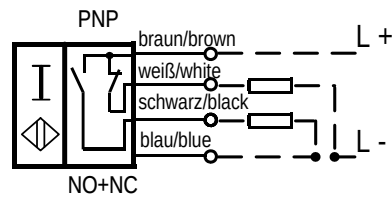
| <b>Mechanical protections /<br/>Mechanische Schutzmaßnahmen</b> |  |                                         |
|-----------------------------------------------------------------|--|-----------------------------------------|
| Degree of protection / Schutzart                                |  | IP 67                                   |
| 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> | 30 mm<br>11 mm<br>--<br>--<br>10 mm<br><br><br>Remarks/Bemerkungen:<br>1) free space/Freiraum<br>2) sensing face/aktive Fläche<br>3) 4 x on circumference/4 x am Umfang |
| 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                 |  | 10 m                                                    |
| Sensing face / Ansprechfläche                             |  | front side / stirnseitig                                |
| Weight / Gewicht                                          |  | Cable / Kabel: 0,10 kg,<br>Connector / Stecker: 0,05 kg |

## 3RG4013-0CD00-PF:



Response characteristics/Ansprechkennlinie:

