

GC - Series

Compact Metal Body

Position & Limit Switches



Position & Limit Switches

GC Series - Metal Body



Product characteristics

- Protection class IP65 conforming to VDE 0470 T1
- Enclosure: Die-cast aluminium
- Cover: Sheet aluminium
- Actuator can be repositioned by 4 x 90°
- Cable entry M20 x 1.5
- Connection designation conforming to DIN EN 50013
- Metal actuators for high loads
- Graduated adjustment of the AH lever
- Selectable direction-dependent contact-making of the AH actuator (basic setting: contact-making on both sides)

Good to know ...

Thanks to its compact design, this metal-enclosed switch is ideally suited for virtually all safety and position monitoring applications.

Options

- Customised cables and connectors available on request

Position & Limit Switches

GC Series - Metal Body

Technical data

| Electrical data | | |
|--|---------------------|---|
| Design insulation voltage (up to) ^① | U _i max. | 400 V AC |
| Conventional thermoelectric current (up to) ^① | I _{the} | 10 A |
| Rated operating voltage | U _e max. | 240 V |
| Utilisation category (up to) ^① | | AC-15, U _e /I _e 240 V/3 A |
| Short circuit protection (up to) ^① | | Safety fuse 10 A gL/gG |
| Protection class | | I |
| Mechanical data | | |
| Enclosure material | | Die-cast aluminium |
| Ambient temperature | | -30 °C to + 80 °C |
| Mechanical lifetime (up to) ^① | | 10 x 10 ⁶ switching cycles |
| B10d (up to) ^① | | 20 million |
| Switching frequency | | ≤ 100/min. |
| Type of connection | | Screwed connections |
| Conductor cross-sections | | Single-wire 0.5 – 1.5 mm ² or strand with wire-end ferrule 0.5 – 1.5 mm ² |
| Cable entry | | 1 x M20 x 1.5 |
| Protection class | | IP65 conforming to IEC/EN 60529 |
| Standards | | |
| VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 | | |
| VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1 | | |

^① Depending on switching system

Technical design

- Slow- and snap action
- **Versions:** 1 NC/1 NO, 2 NC/2 NO, 2 NC, overlapping contacts
- All NC contacts with ⊕ in the circuit diagram are positively opening contacts
- Type: Zb (galvanically isolated changeover contact)
- Latching function available on request

Mounting

- 2 M4 oval holes for adjustment
(for safety applications there is a blind hole for a Ø 4.0 mm fitted pin in the enclosure base or an enclosure with holes for M5)

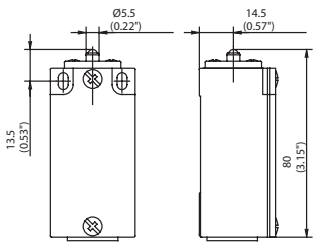


Position & Limit Switches

GC Series - Metal Body

GC-... IW

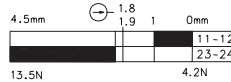
Replacement actuator: 3912030546



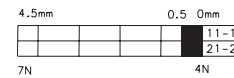
| | 1 NC / 1 NO | 2 NC |
|--|-------------|------|
|--|-------------|------|

Slow-action system

6021102001
GC-U1Z IW



6021802189
GC-A2Z IW



Snap-action system

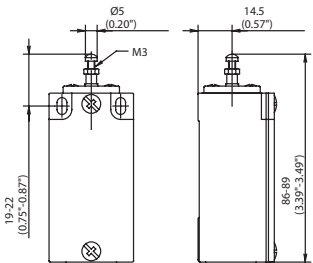
6021102001
GC-U1Z IW



Special features: on request

GC-... STIW

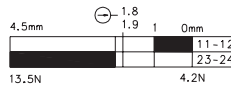
Replacement actuator: 391205023



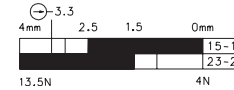
| | 1 NC / 1 NO | 1 NC / 1 NO overlapping |
|--|-------------|-------------------------|
|--|-------------|-------------------------|

Slow-action system

602 1105015
GC-U1Z STIW



6021305016
GC-UV1Z STIW



Snap-action system

6021155017
GC-SU1Z STIW



Special feature: Actuator length adjustable with adjusting screw

Position & Limit Switches

GC Series - Metal Body



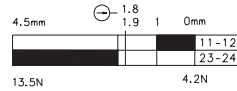
Replacement actuator: 3912170518

GC-... RIW

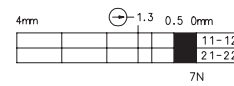
| | 1 NC / 1 NO | 2 NC | 1 NC / 1 NO overlapping |
|--|-------------|------|-------------------------|
|--|-------------|------|-------------------------|

Slow-action system

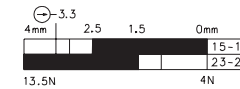
6021117029
GC-U1Z RIW



6021817172
GC-A2Z RIW

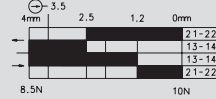


6021317030
GC-UV1Z RIW

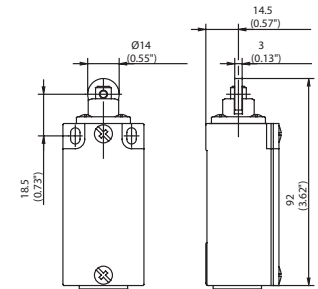


Snap-action system

6021367626
GC-SU1Z RIW



Special features (on request): available for high temperature range and the following contacts: 2 NC / 1 NO; 2 NC / 2 NO (larger enclosure)



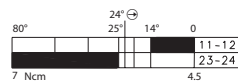
Replacement actuator: 3912350722

GC-... AH

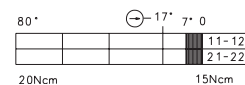
| | 1 NC / 1 NO | 2 NC | 2 NO | 1 NC / 1 NO overlapping |
|--|-------------|------|------|-------------------------|
|--|-------------|------|------|-------------------------|

Slow-action system

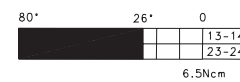
6021135102
GC-U1Z AH



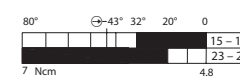
6121835833 siehe gesondertes GC-A2Z AHS Datenblatt



6021835160
GC-E2 AH



6021335133
GC-UV1Z AH

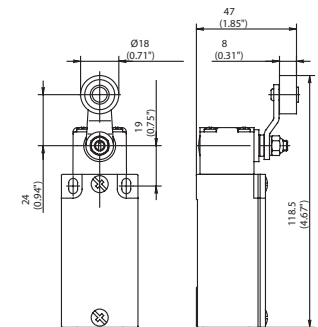


Snap-action system

6021385634
GC-SU1Z AH



Special feature (on request): available with various roller diameters, cranked or straight lever and with various lever lengths with roller over switch and with the following contacts: 2 NC / 2 NO (larger enclosure)



Position & Limit Switches

GC Series - Metal Body

GC-... AV

Replacement actuator: 3912360723



1 NC / 1 NO

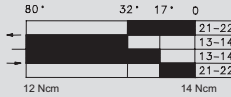
Slow-action system

6021136104
GC-U1 AV

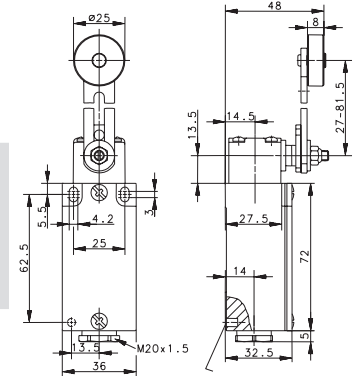


Snap-action system

6021186118
GC-SU1 AV



Special features (on request): various roller diameters; different lever lengths; with roller over switch and with the following contacts: 2 NC / 2 NO



GC-... AD

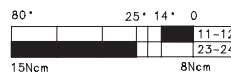
Replacement actuator: 3912370724



1 NC / 1 NO

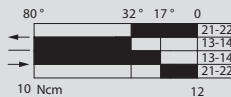
Slow-action system

6021137103
GC-U1 AD

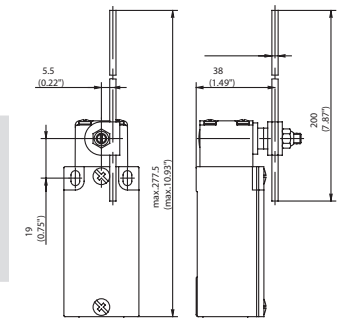


Snap-action system

6021187125
GC-SU1 AD



Special features (on request): available with various actuator lengths and actuator directions; with the following contacts: 2 NC / 1 NO with overlap (larger enclosure)



Position & Limit Switches

GC Series - Metal Body

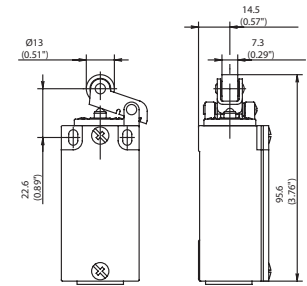


Replacement actuator: 3912200552

GC-... HIW

| | 1 NC / 1 NO | 2 NC | 2 NO | 1 NC / 1 NO overlapping |
|---------------------------|--------------------------------------|-------------------------------------|------------------------------------|--------------------------------------|
| Slow-action system | 6021120057 GC-U1Z HIW | 6021820175 GC-A2Z HIW | 6021820157 GC-E2 HIW | 6021320058 GC-UV1Z HIW |
| Snap-action system | 6021370629 GC-SU1Z HIW | | | |

Special features (on request): available with different actuating directions; available with a steel roller; with the following contacts: 2 NC / 2 NO; 1 NC / 2 NO with overlap (larger enclosure)



Replacement actuator: 3912400510

GC-... FF

| | 1 NC / 1 NO |
|---------------------------|------------------------------------|
| Slow-action system | 6021140476 GC-U1 FF |
| Snap-action system | 6021190100 GC-SU1 FF |

Special features (on request): different spring lengths; different spring versions or spring rod

