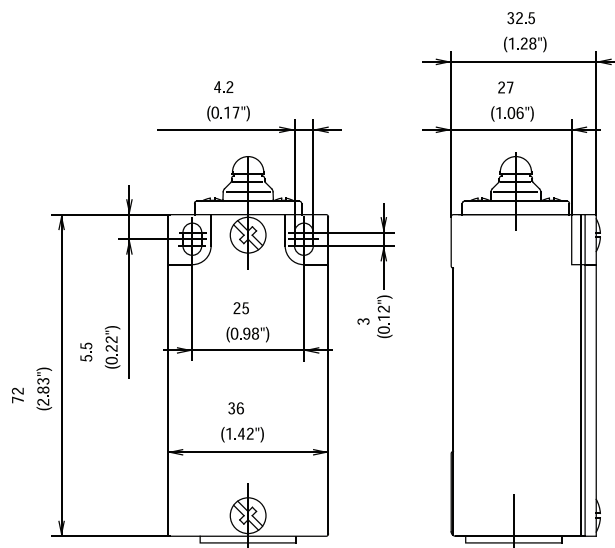


GC Series



Recommended use

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

Product advantages

- Protection class IP65 to VDE 0470 T1
- Enclosure: Aluminum pressure die-casting
- Cover: Sheet aluminum
- 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 AH lever
- Selectable direction-dependent contact-making of AH actuator (basic setting: contact-making both sides)

Options

- AS interface versions on request
- Preassembled with customer-specific cables and connectors on request

Design layout

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

Mounting

- 2 adjustment slots for M4 screws (for safety applications with blind hole for $\varnothing$ 4.0 mm fitted pin in enclosure base or enclosure with holes for M5)

Installation advantages

- Screw connections with clamping plates
- Captive cover screws
- Easy-to-change switching system thanks to snap-in retainer
- Finely adjustable switching point with adjusting screw

Technical data

Electrical data	
Rated insulation voltage (up to) ¹	U _i max. 400 V AC
Conventional thermal current (up to) ¹	I _{th} max. 10 A
Rated operating voltage	U _e max. 240 V
Utilization category (up to) ¹	AC-15, U _e /I _e 240 V/3 A
Short-circuit protection (up to) ¹	Fuse 10 A gL/gG
Protection class	I
Mechanical data	
Enclosure material	Aluminum pressure die-casting
Ambient temperature	-30 °C to +80 °C
Mechanical service life (up to) ¹	10 x 10 ⁶ switching cycles
B10d (up to) ¹	20 Mill.
Switching frequency	≤ 100/min.
Type of connection	Screw connections
Conductor cross sections	Single-wire 0.5 - 1.5 mm ² or Stranded wire with 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	

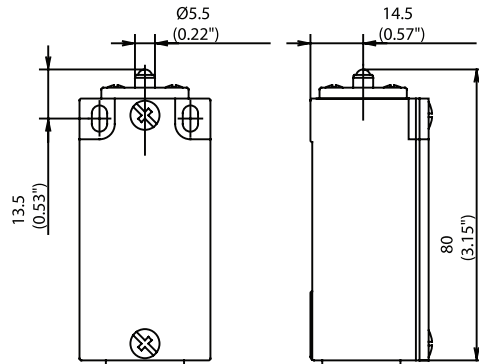
¹ Depending on switching system.

Drawing dimensions in mm

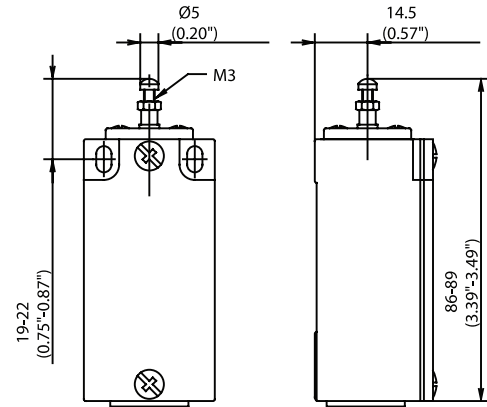
GC Series



IW



STIW

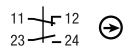


Switching Operation

1 NC / 1 NO Contacts

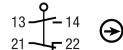
Slow Action

602.1102.001
GC-U1Z IW



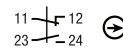
Snap Action

602.1352.620
GC-SU1Z IW



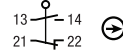
Slow Action

602.1105.015
GC-U1Z STIW



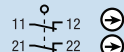
Snap Action

602.1155.017
GC-SU1Z STIW



2 NC Contacts

602.1802.189
GC-A2Z IW



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-

-

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2 NO Contacts

-

-

-

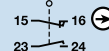
-

1 NC / 1 NO Contacts Overlapping

-

-

602.1305.016
GC-UV1Z STIW



-

-

Replacement actuator:

391.2030.546

391.2050.523

Technical Information

Slow Action

Snap Action

Maximum Switching Voltage

240V

240V

Max. Switching Amps (up to)*

10A

10A

B10d (up to)*

20 Million

20 Million

Mechanical Service Life (up to)*

10 x 10⁶

10 x 10⁶

Switching Frequency

≤ 100/min

≤ 100/min

Operating Temperature

-30 °C to +80 °C

-30 °C to +80 °C

Protection Rating

IP65

IP65

Utilization Category (up to)*

AC-15, Ue/Ue 240V 3A

AC-15, Ue/Ue 240V 3A

Rate Insulation Voltage

400VAC

400VAC

Approvals

* Depending on switching system - see technical information for details



Special features/variants (on request)

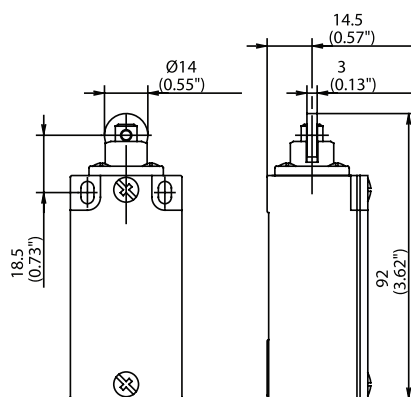
Special features/variants (on request)

- Actuator length adjustable with adjusting screw

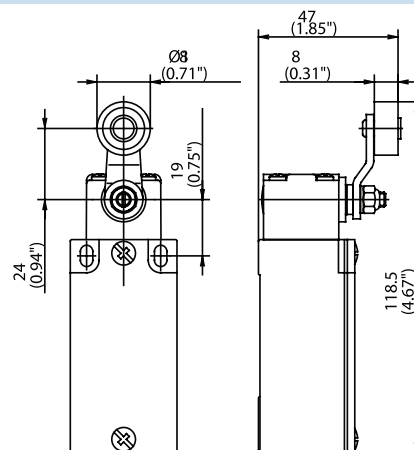
Drawing dimensions in mm

GC Series

RIW



AH

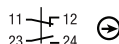


Switching Operation

1 NC / 1 NO Contacts

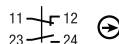
Slow Action

602.1117.029
GC-U1Z RIW



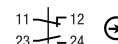
Snap Action

602.1367.626
GC-SU1Z RIW



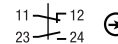
Slow Action

602.1135.102
GC-U1Z AH



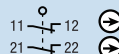
Snap Action

602.1385.634
GC-SU1Z AH



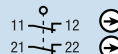
2 NC Contacts

602.1817.172
GC-A2Z RIW



-

612.1835.833
GC-A2Z AHS



-

2 NO Contacts

602.1817.154
GC-E2 RIW



-

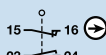
602.1835.160
GC-E2 AH



-

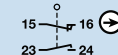
1 NC / 1 NO Contacts Overlapping

602.1317.030
GC-UV1Z RIW



-

602.1335.133
GC-UV1Z AH



-

Replacement actuator:

391.2170.518

391.2350.722

Technical Information

	Slow Action	Snap Action
Maximum Switching Voltage	240V	240V
Max. Switching Amps (up to)*	10A	10A
B10d (up to)*	20 Million	20 Million
Mechanical Service Life (up to)*	3 x 10 ⁶	10 x 10 ⁶
Switching Frequency	≤ 100/min	≤ 100/min
Operating Temperature	-30 °C to +80 °C	-30 °C to +80 °C
Protection Rating	IP65	IP65
Utilization Category (up to)*	AC-15, Ue/Ue 240V 3A	AC-15, Ue/Ue 240V 3A
Rate Insulation Voltage	400VAC	400VAC

Approvals

* Depending on switching system - see technical information for details



Special features/variants (on request)

- Available for high temperature range and following contacts:
2 NC / 1 NO contact (larger enclosure)
2 NC / 2 NO contact (larger enclosure)

Special features/variants (on request)

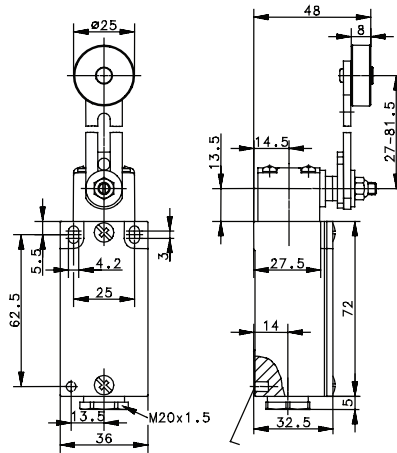
- Available with different roller diameters, bent or straight lever and with different lever lengths

Drawing dimensions in mm

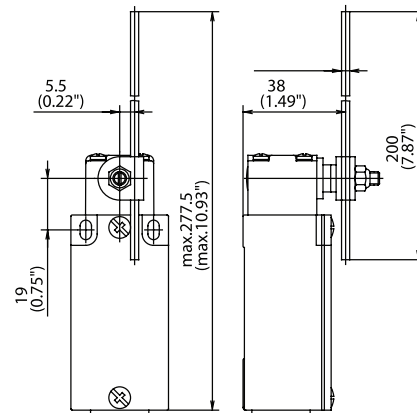
GC Series



AV



AD

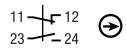


Switching Operation

1 NC / 1 NO Contacts

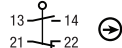
Slow Action

602.1136.104
GC-U1 AV



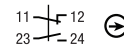
Snap Action

602.1186.118
GC-SU1 AV



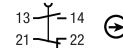
Slow Action

602.1137.103
GC-U1 AD



Snap Action

602.1187.125
GC-SU1 AD



2 NC Contacts

-

-

-

-

2 NO Contacts

-

-

-

-

1 NC / 1 NO Contacts Overlapping

-

-

-

-

Replacement actuator:

391.2360.723

391.2370.724

Technical Information

Slow Action

Snap Action

Maximum Switching Voltage	240V	240V
Max. Switching Amps (up to)*	10A	10A
B10d (up to)*	20 Million	20 Million
Mechanical Service Life (up to)*	10 x 10 ⁶	10 x 10 ⁶
Switching Frequency	≤ 100/min	≤ 100/min
Operating Temperature	-30 °C to +80 °C	-30 °C to +80 °C
Protection Rating	IP65	IP65
Utilization Category (up to)*	AC-15, Ue/Ue 240V 3A	AC-15, Ue/Ue 240V 3A
Rate Insulation Voltage	400VAC	400VAC
Approvals	* Depending on switching system - see technical information for details	



Special features/variants (on request)

- Different roller diameters and lever lengths
- With roller over switch and with 2 NC / 2 NO contact

Special features/variants (on request)

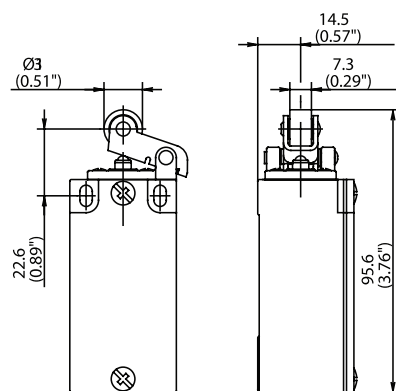
- Available different actuator lengths and actuator directions
- With 2 NC / 1 NO with overlap contacts (larger enclosure)

Drawing dimensions in mm

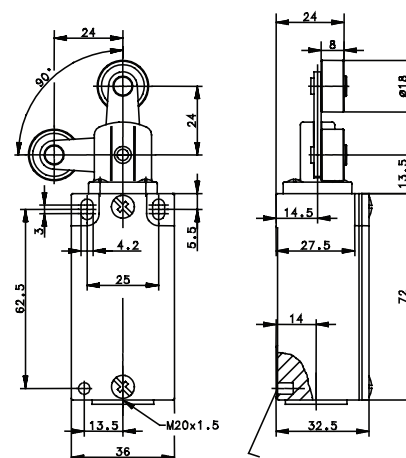
GC Series

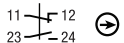
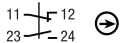
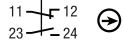
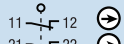
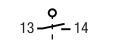
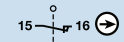


HIW



DR



Switching Operation	Slow Action	Snap Action	Slow Action	Snap Action
1 NC / 1 NO Contacts	602.1120.057 GC-U1Z HIW 	602.1370.629 GC-SU1Z HIW 	-	602.1191.099 GC-SU1Z DR 
2 NC Contacts	602.1820.175 GC-A2Z HIW 	-	-	-
2 NO Contacts	602.1820.157 GC-E2 HIW 	-	-	-
1 NC / 1 NO Contacts Overlapping	602.1320.058 GC-UV1Z HIW 	-	-	-
Replacement actuator:	391.2200.552		391.2410.593	

Technical Information

	Slow Action	Snap Action	Slow Action	Snap Action
Maximum Switching Voltage	240V	240V	240V	240V
Max. Switching Amps (up to)*	10A	10A	10A	10A
B10d (up to)*	20 Million	20 Million	20 Million	20 Million
Mechanical Service Life (up to)*	3 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶
Switching Frequency	≤ 100/min	≤ 100/min	≤ 100/min	≤ 100/min
Operating Temperature	-30 °C to +80 °C	-30 °C to +80 °C	-30 °C to +80 °C	-30 °C to +80 °C
Protection Rating	IP65	IP65	IP65	IP65
Utilization Category (up to)*	AC-15, Ue/Ue 240V 3A	AC-15, Ue/Ue 240V 3A	AC-15, Ue/Ue 240V 3A	AC-15, Ue/Ue 240V 3A
Rate Insulation Voltage	400VAC	400VAC	400VAC	400VAC

Approvals

* Depending on switching system - see technical information for details



Special features/variants (on request)

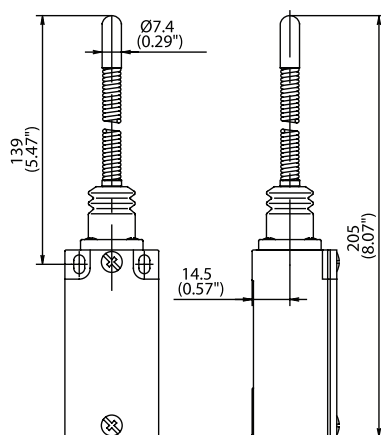
- Available with different actuator directions, steel roller and additional contacts:
- 2 NC / 1 NO overlapping contact (larger enclosure)
- 2 NC / 2 NO contact (larger enclosure)

Drawing dimensions in mm

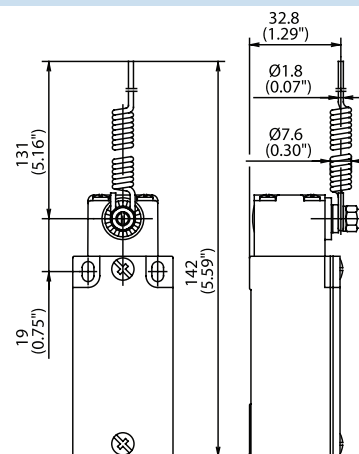
GC Series



FF



AF

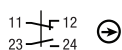


Switching Operation

1 NC / 1 NO Contacts

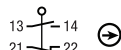
Slow Action

602.1140.476
GC-U1 FF



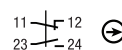
Snap Action

602.1190.100
GC-SU1 FF



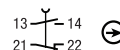
Slow Action

602.1139.106
GC-U1 AF



Snap Action

602.1189.128
GC-SU1 AF



2 NC Contacts

-

-

-

-

2 NO Contacts

-

-

-

-

1 NC / 1 NO Contacts Overlapping

-

-

-

-

Replacement actuator:

391.2400.510

391.2390.725

Technical Information

Slow Action

Snap Action

Maximum Switching Voltage

240V

240V

Max. Switching Amps (up to)*

10A

10A

B10d (up to)*

20 Million

20 Million

Mechanical Service Life (up to)*

10 x 10⁶

10 x 10⁶

Switching Frequency

≤ 100/min

≤ 100/min

Operating Temperature

-30 °C to +80 °C

-30 °C to +80 °C

Protection Rating

IP65

IP65

Utilization Category (up to)*

AC-15, Ue/Ue 240V 3A

AC-15, Ue/Ue 240V 3A

Rate Insulation Voltage

400VAC

400VAC

Approvals

* Depending on switching system - see technical information for details



Special features/variants (on request)

- Different spring lengths
- Different spring versions or spring rod

Special features/variants (on request)

- Available with various actuator lengths and actuator directions

Drawing dimensions in mm

Mouser Electronics

Authorized Distributor

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Altech:

[612.2523.013](#) [612.2785.892](#) [612.2785.893](#) [612.1385.988](#) [612.1735.499](#) [612.2267.971](#) [612.2286.838](#)
[612.2467.975](#) [612.2473.993](#) [612.1367.890](#) [612.1367.987](#) [612.1385.523](#) [612.1385.972](#) [612.1385.973](#) [612.1385.974](#)
[612.1190.918](#) [612.1190.922](#) [612.1194.814](#) [612.1336.607](#) [612.1367.643](#) [612.1367.804](#) [612.1171.727](#)
[612.1174.846](#) [612.1185.616](#) [612.1185.706](#) [612.1187.245](#) [612.1190.585](#) [612.1137.386](#) [612.1137.875](#) [612.1139.626](#)
[612.1140.939](#) [612.1144.304](#) [612.1170.864](#) [612.1100.677](#) [612.1100.772](#) [612.1120.927](#) [612.1121.771](#)
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[602.1379.640](#) [602.1385.093](#) [602.1836.123](#) [602.2200.418](#) [602.2286.962](#) [602.2294.117](#) [602.1180.251](#)
[602.1187.119](#) [602.1194.379](#) [602.1300.411](#) [602.1367.112](#) [602.1371.630](#) [602.1170.309](#) [602.1170.382](#) [602.1173.087](#)
[602.1173.514](#) [602.1176.509](#) [602.1177.080](#) [602.1103.008](#) [602.1120.295](#) [602.1130.247](#) [602.1144.293](#)
[602.1155.017](#) [602.1160.052](#)