Actuating elements

Features

- Easy installation
- Certified for zones 1 and 21
- High IP degree of protection

Description

A large number of variants and versions of actuating elements are available for the ComEx control and indicator units. All actuating elements are made of high-quality thermoplastic and conform to the IP 65/IP 66/IP 67 type of protection.

To complete the actuating elements, there are useful accessories such as e. g. label holders, marking tags, metal shroud or nut wrench.

Actuating elements with NBR sealing for increased resistance to oil are available too.

The actuating elements are mounted quickly and easily onto the ComEx control and indicating devices. Use in Zone 1 and 21 is certified.

Explosion protection

Ex protection type
⟨Ex⟩ II 2G Ex e II
⟨Ex⟩ II 2D Ex td A21 IP 65, IP 66, IP 67
PTB 00 ATEX 3114 U

Ex e II
Ex tD A21 IP 65, IP 66, IP 67
IECEx PTB 08.0037U

Class I, Div. 2, Groups A, B, C, D
Class I, Zone 1, AEx e IIC, Ex e IIC
UL E184198
INMETRO 2003 EC02 CP088 U
0044

Ambient and operating temp. range
-55 °C to +70 °C (Zone 1)
-20 °C to +70 °C (Zone 21)

permitted for zones
Zone 1
Zone 21 (Min. requis IP 6X,
          Temperature range -20 °C)

Technical data

Storage and transport temperature
-55 °C to +70 °C

Type of protection
See table

Impact resistance
7 Nm (Lamp actuators 4 Nm)

Material
Enclosure   thermoplastic
Sealings   EPDM, NBR for increased
            resistance to oil

Weight
See table

Fastening
Installation in enclosures with wall thickness of 1 mm up to 6 mm (threading M30 x 1.5). Suitable for through-holes $30.3^{+0.3}$ mm

Protection class of the actuating elements			
Description	Code	Temperature range **-55 °C to +70 °C**	Temperature range **-20 °C to +70 °C**
Position selector switch	05-0003-007...	IP 54	IP 66, IP 67
Double push button actuator	05-0003-0074.. (*BN) 05-0003-0075.. (*BN)	IP 54 IP 54	IP 6X IP 6X
Pushbutton	05-0003-000700 (*BN)	IP 54	IP 66, IP 67
Mushroom pushbutton	05-0003-001800 (*BN)	IP 54	IP 66, IP 67
Emergency Stop	05-0003-000800 (*BN)	IP 54	IP 66, IP 67
Locking mushroom pushbutton	05-0003-001203 (*BN)	IP 54	IP 66, IP 67
Lock (DOM)	05-0003-0012.. (*BN)	IP 54	IP 66, IP 67
Lock (RONIS)	05-0003-006100 (*BN)	IP 54	IP 66, IP 67
Position selector switch BS (2 positions)	05-0003-00090. BS	IP 54	IP 66, IP 67
Position selector switch BS (3 positions)	05-0003-001... BS	IP 54	IP 66, IP 67
Key switch (2 positions)	05-0003-007.... (*BN)	IP 54	IP 65
Key switch (3 positions)	05-0003-0079.. (*BN) 05-0003-0080.. (*BN)	IP 54 IP 54	IP 65 IP 65
Position selector switch (2 positions)	05-0003-0009... (*BN)	IP 54	IP 66, IP 67
Position selector switch (3 positions)	05-0003-001.... (*BN)	IP 54	IP 66, IP 67
Lamp	05-0003-001.... (*BN)	IP 54	IP 66, IP 67
Illuminated button actuator	05-0003-006.... (*BN)	IP 54	IP 66, IP 67
Potentiometer actuator	05-0003-007600 (*BN)	IP 54	IP 66, IP 67
Blanking plug	05-0003-001900 (*BN)	IP 54	IP 66, IP 67

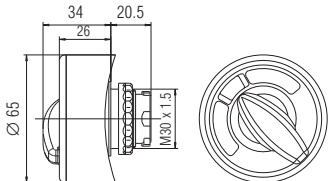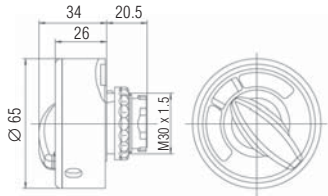*BN for increased resistance to oil (with NBR seal)

Selection chart
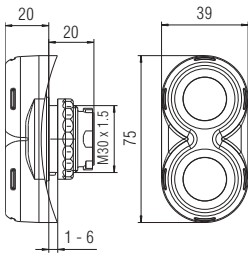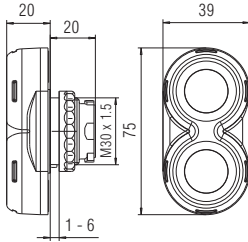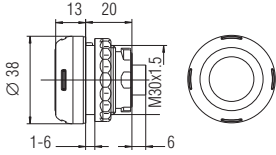
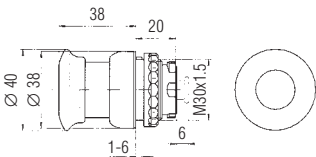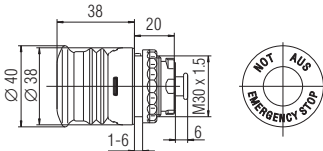| Illustration	Dimensions	Description	➡ Order no.

	for ComEx enclosure
	
	34 20.5
	26
	Ø 65 M30 x 1.5
	
	for Control unit/ComEx 316L
	
	34 20.5
	26
	Ø 65 M30 x 1.5
		Position selector switch black
		with protective collar, lockable*
		only for switch module (2-pole)
		
		0 - I for control unit (flat)
		for ComEx enclosure
		
		I - II for control unit (flat)
		for ComEx enclosure
		
		I - 0 - II for control unit
		for ComEx enclosure
		
		HAND - 0 - AUTO for control unit (flat)
		for ComEx enclosure
		
		MAN - 0 - AUTO for control unit (flat)
		for ComEx enclosure
		
		Weight 74 g
		
		* 3 boreholes in the protective collar to fit padlocks
		  in the switch position 0 (I), or to customer
		  specifications.
			05-0003-007001
			05-0003-007101
			
			05-0003-007002
			05-0003-007102
			
			05-0003-007203
			05-0003-007303
			
			05-0003-007224
			05-0003-007324
			
			05-0003-007225
			05-0003-007325

	for ComEx enclosure 20 39 20 M30 x 1.5 75 1 - 6 for Control unit/ComEx 316L 20 39 20 M30 x 1.5 75 1 - 6	**Double pushbutton actuator** with EPDM rubber membrane or with NBR sealing, 5 labels red, green, yellow, white, black, supplied loose for ComEx enclosures with EPDM sealing for ComEx enclosures with NBR sealing for control units with EPDM sealing for control units with NBR sealing Weight 52 g	**05-0003-007500** 05-0003-007500BN **05-0003-007400** 05-0003-007400BN
	13 20 Ø 38 M30X1.5 1-6 6	**Pushbutton** with EPDM rubber membrane or with NBR sealing, 5 labels red, green, yellow, white, black, supplied loose with EPDM sealing with NBR sealing Weight 24 g	**05-0003-007000** 05-0003-007000BN
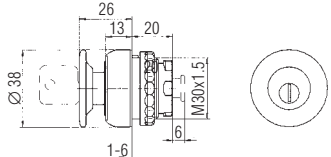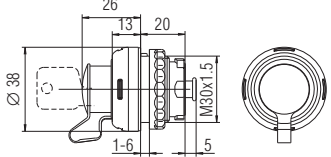
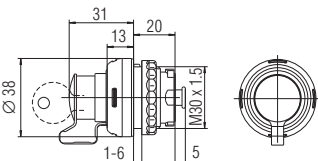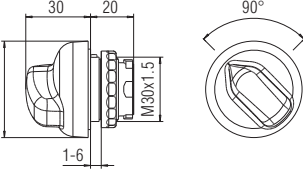| Illustration	Dimensions	Description	➡ Order no.
	38 20 Ø 40 Ø 38 M30x1.5 6 1-6	**Mushroom pushbutton** with EPDM rubber membrane or with NBR sealing, black with EPDM sealing with NBR sealing Weight 24 g	**05-0003-001800** 05-0003-001800BN
	38 20 Ø 40 Ø 38 M30 x 1.5 6 1-6 NOT AUS EMERGENCY STOP	**EMERGENCY STOP** slam button with EPDM rubber membrane or with NBR sealing, pushbutton marked "NOT-AUS EMERGENCY STOP - Pull to Release" DIN EN 60204-1: 2007 DIN EN 60947-5-1: 2005 (VDE 0660 Part 200) with EPDM sealing with NBR sealing Weight 46 g	**05-0003-000800** 05-0003-000800BN
	26 13 20 Ø 38 M30x1.5 6 1-6	**Locking mushroom pushbutton**, push in without key, unlock with key, DOM lock 4 A 185 with EPDM sealing with NBR sealing Weight 70 g	**05-0003-001203** 05-0003-001203BN
	26 13 20 Ø 38 M30x1.5 1-6 5	**Lock** DOM lock 4 A 185 Lockable in both positions, Key retractable in both positions with EPDM sealing with NBR sealing Lockable in the depressed position, Key retractable in the depressed position with EPDM sealing with NBR sealing Tip lock lockable in the initial positions, Key retractable in the initial positions with EPDM sealing with NBR sealing Weight 69 g	**05-0003-001200** 05-0003-001200BN **05-0003-001201** 05-0003-001201BN **05-0003-001202** 05-0003-001202BN
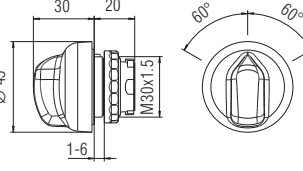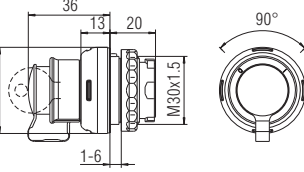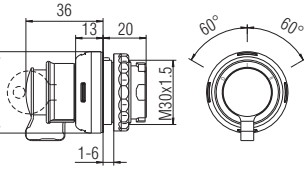
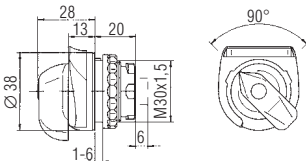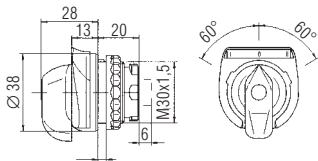| Illustration	Dimensions	Description	➡ Order no.
	31 13 20 Ø 38 M30 x 1.5 1-6 5	**Lock** RONIS lock 455 Lockable in both positions, Key retractable in both positions with EPDM sealing with NBR sealing Weight 75 g	**05-0003-006100** 05-0003-006100BN
	2 switching positions 30 20 90° Ø 45 M30x1.5 1-6 3 switching positions 30 20 60° 60° Ø 45 M30x1.5 1-6	**Position selector switch BS**, black, with 2 or 3 switching positions, turned 90° for ComEx enclosures 0 - I for control units for ComEx enclosures I - 0 - II (I + II latching) for control units for ComEx enclosures I - 0 - II (I + II momentary contact) for control units for ComEx enclosures I - 0 - II (I latching, II momentary) for control units for ComEx enclosures I - 0 - II (I momentary, II latching) for control units for ComEx enclosures Weight 33 g	**05-0003-000900BS** **05-0003-000901BS** **05-0003-001000BS** **05-0003-001100BS** **05-0003-001001BS** **05-0003-001101BS** **05-0003-001002BS** **05-0003-001102BS** **05-0003-001003BS** **05-0003-001103BS**
	2 switching positions 36 13 20 90° Ø 38 M30x1.5 1-6 3 switching positions 36 13 20 60° 60° Ø 38 M30x1.5 1-6	**Key-operated switch**, RONIS lock 456, with 2 or 3 switching positions, turned 90° for ComEx enclosures 0 - I for control units latching, for ComEx enclosures key retractable 0 - I for control units momentary contact, for ComEx enclosures Position I key not retractable I - 0 - II for control units (I + II latching), for ComEx enclosures key retractable Weight 49 g	**05-0003-007700** **05-0003-007800** **05-0003-007701** **05-0003-007801** **05-0003-007900** **05-0003-008000**
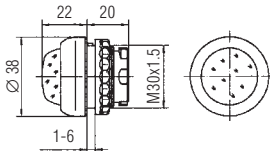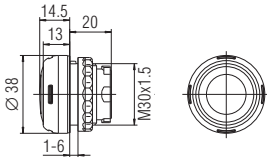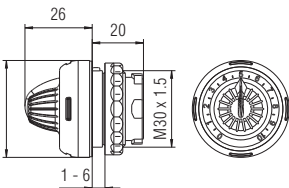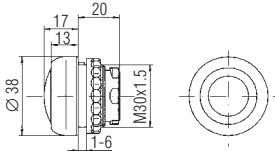
Illustration	Dimensions	Description	➡ Order no.
	2 switching positions	**Position selector switch**, black, with 2 or 3 switching positions	
	28 13 20 90° Ø 38 M30x1.5 6 1-6	0 - I **for control units** with EPDM sealing with NBR sealing	**05-0003-000900** 05-0003-000900BN
		turned 90° for ComEx enclosures with EPDM sealing with NBR sealing	**05-0003-000901** 05-0003-000901BN
		I - 0 - II (I + II latching) **for control units** with EPDM sealing with NBR sealing	**05-0003-001000** 05-0003-001000BN
	3 switching positions	**turned 90° for ComEx enclosures** with EPDM sealing with NBR sealing	**05-0003-001100** 05-0003-001100BN
	28 13 20 60° 60° Ø 38 M30x1.5 6	I - 0 - II (I + II momentary) **for control units** with EPDM sealing with NBR sealing	**05-0003-001001** 05-0003-001001BN
		turned 90° for ComEx enclosures with EPDM sealing with NBR sealing	**05-0003-001101** 05-0003-001101BN
		I - 0 - II (I latching, II momentary contact) **for control units** with EPDM sealing with NBR sealing	**05-0003-001002** 05-0003-001002BN
		turned 90° for ComEx enclosures with EPDM sealing with NBR sealing	**05-0003-001102** 05-0003-001102BN
		I - 0 - II (I momentary contact, II latching) **for control units** with EPDM sealing with NBR sealing	**05-0003-001003** 05-0003-001003BN
		turned 90° for ComEx enclosures with EPDM sealing with NBR sealing	**05-0003-001103** 05-0003-001103BN
		Weight 33 g	
	22 20 Ø 38 M30x1.5 1-6	**Lamp module actuator**	
		red with EPDM sealing with NBR sealing	**05-0003-001300** 05-0003-001300BN
		green with EPDM sealing with NBR sealing	**05-0003-001400** 05-0003-001400BN
		yellow with EPDM sealing with NBR sealing	**05-0003-001500** 05-0003-001500BN
		white with EPDM sealing with NBR sealing	**05-0003-001600** 05-0003-001600BN
		blue with EPDM sealing with NBR sealing	**05-0003-001700** 05-0003-001700BN
		Weight 19 g	

Illustration	Dimensions	Description	➡ Order no.
	14.5 20 13 Ø 38 M30x1.5 1-6	**Illuminated button actuator** red with EPDM sealing red with NBR sealing green with EPDM sealing green with NBR sealing yellow with EPDM sealing yellow with NBR sealing white with EPDM sealing white with NBR sealing blue with EPDM sealing blue with NBR sealing Weight 19 g	**05-0003-006500** 05-0003-006500BN **05-0003-006600** 05-0003-006600BN **05-0003-006700** 05-0003-006700BN **05-0003-006800** 05-0003-006800BN **05-0003-006900** 05-0003-006900BN
	26 20 M30 X 1.5 1 - 6	**Potentiometer actuator**, black, durable and abrasion-resistant, Scale gradation from 0 to 10 with EPDM sealing with NBR sealing Weight 28 g	**05-0003-007600** 05-0003-007600BN
	17 20 13 Ø 38 M30x1.5 1-6	**Blanking plug**, to cover unused holes in the cover with EPDM sealing with NBR sealing Weight 20 g	**05-0003-001900** 05-0003-001900BN