

22C, 22CX, 22CX5, 26LC Series

ON/OFF electrothermic actuators

Technical Data Sheet



Description

The electrothermic actuators **22C**, **22CX**, **22CX5** and **26LC Series** are ON/OFF devices used for automatic actuation of the valves on thermostatic adaptable valves, fan coil valves, manifolds. The electrothermic actuators are available in the following versions:

- NO (normally open), NC (normally closed)
- 2-wire or 4-wire (with auxiliary microswitch), both easy to fix on the valve body with a M30x1,5 threaded ring nut.



22C

Electrothermic actuator compact design with on/off action compatible with thermostatic adaptable valves, fan coil valves, manifolds. Cap made of flame retardant plastic. Nickel-plated brass threaded ring nut M30x1.5. Normally Close (NC) and Normally Open (NO). Stroke: 3,5 mm. Nominal closing force: 100N (NC) – 80N (NO). Operating temperature range 0÷50°C. 4 poles cable version complete of auxiliary microswitch (NO4 – NC4). Auxiliary microswitch not energized, inductive load: maximum 700 mA. IP44 in vertical position. **Compliant with LVD 2014/35/UE, EMC 2014/30/UE. Approved TÜV.**

Cable ø=7,2 mm

Type	Part no.	Power supply	Weight [g]
22C	22C230NC2	230V	150
22C	22C24NC2	24V	150
22C	22C230NC4	230V	200
22C	22C24NC4	24V	200
22C	22C230NA2	230V	150
22C	22C24NA2	24V	150
22C	22C230NA4	230V	200
22C	22C24NA4	24V	200

Cable ø=5,5 mm

Type	Part no.	Power supply	Weight [g]
22C	22C230NC2-5	230V	150
22C	22C24NC2-5	24V	150
22C	22C230NA2-5	230V	150
22C	22C24NA2-5	24V	150



22CX

Electrothermic actuator compact design with on/off action compatible with thermostatic adaptable valves, fan coil valves, manifolds. Cap made of flame retardant plastic. Nickel-plated brass threaded ring nut M30x1.5. Normally Close (NC) and Normally Open (NO). Stroke: 3,5 mm. Nominal closing force: 100N (NC) – 80N (NO). Operating temperature range 0÷50°C. 4 poles cable version complete of auxiliary microswitch (NO4 – NC4). Auxiliary microswitch not energized, inductive load: maximum 700 mA. IP54. **Compliant with LVD 2014/35/UE, EMC 2014/30/UE. Approved TÜV.**

Type	Part no.	Power supply	Weight [g]
22CX	22CX230NC2	230V	150
22CX	22CX24NC2	24V	150
22CX	22CX230NC4	230V	200
22CX	22CX24NC4	24V	200
22CX	22CX230NA2	230V	150
22CX	22CX24NA2	24V	150
22CX	22CX230NA4	230V	200
22CX	22CX24NA4	24V	200



22CX5

Electrothermic actuator compact design with on/off action compatible with thermostatic adaptable valves, fan coil valves, manifolds. Cap made of flame retardant plastic. Nickel-plated brass threaded ring nut M30x1.5. Normally Close (NC). **Stroke: 5mm.** Nominal closing force: 110N (NC). Operating temperature range 0÷50°C. 4 poles cable version complete of auxiliary microswitch (NC4). Auxiliary microswitch not energized, inductive load: maximum 700 mA. IP54.

Compliant with LVD 2014/35/UE, EMC 2014/30/UE. Approved TÜV.

Type	Part no.	Power supply	Weight [g]
22CX5	22CX5230NC2	230V	150
22CX5	22CX5230NC4	230V	150
22CX5	22CX524NC2	24V	200
22CX5	22CX524NC4	24V	200

Type	Part no.	Power supply	Weight [g]
22CX5	22CX5230NC2-2	230V-Cable 2m	150
22CX5	22CX5230NC4-2	230V-Cable 2m	150
22CX5	22CX524NC2-2	24V-Cable 2m	200
22CX5	22CX524NC4-2	24V-Cable 2m	200



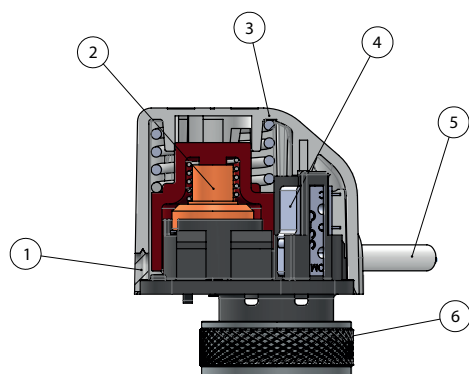
26LC

Electrothermic actuator compact design with on/off action compatible with thermostatic adaptable valves, fan coil valves, manifolds. Cap made of flame retardant plastic. Nickel-plated brass threaded ring nut M30x1.5. Normally Close (NC) 230 Vac and 24 Vac. Stroke: 3,5mm. Easily removable electrical cable with safety latch connector. LED check for the status (ON/OFF) of the actuator. 4 poles cable version complete of auxiliary microswitch (NC4). Auxiliary microswitch not energized, inductive load: max 700 mA. IP64.

Compliant with LVD 2014/35/UE, EMC 2014/30/UE. Approved TÜV.

Type	Part no.	Power supply	Weight [g]
26LC	26LC230NC2	230V	140
26LC	26LC24NC2	24V	140
26LC	26LC230NC4	230V + microswitch	155
26LC	26LC24NC4	24V + microswitch	155

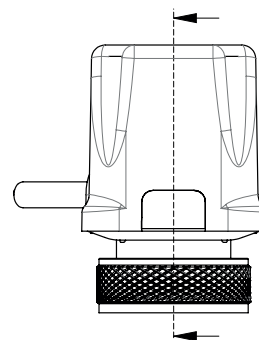
22C



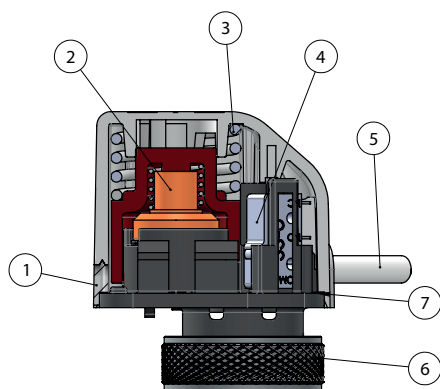
Normally closed

Features

1. Transparent zone
2. Wax thermostatic element
3. Opposing spring
4. Electrical microswitch (4 wire)
5. Electrical wiring
6. Ring Nut M30x1,5



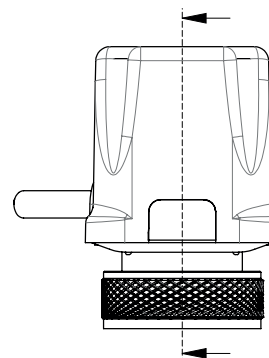
22CX



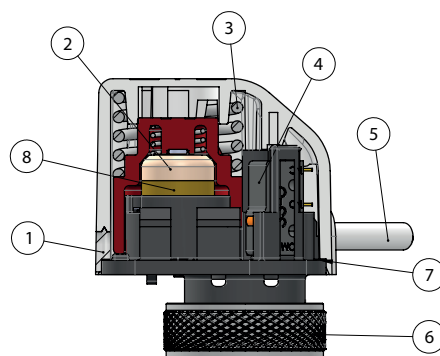
Normally closed

Features

1. Transparent zone
2. Wax thermostatic element
3. Opposing spring
4. Electrical microswitch (4 wire)
5. Electrical wiring
6. Ring Nut M30x1,5
7. O-Ring



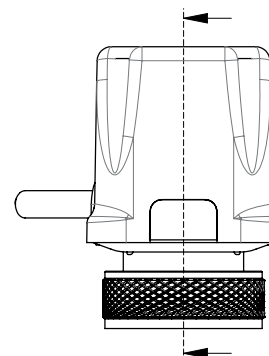
22CX5



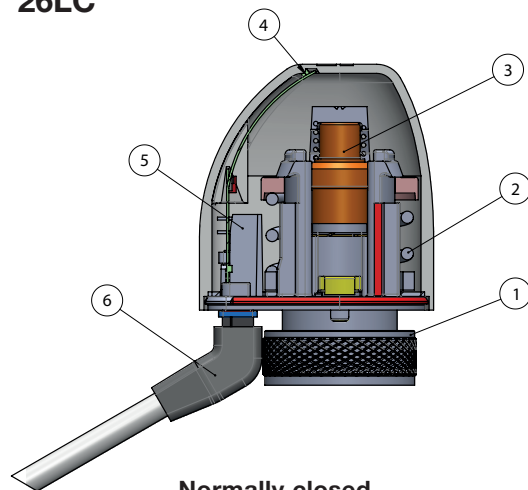
Normally closed

Features

1. Transparent zone
2. Wax thermostatic element
3. Opposing spring
4. Electrical microswitch (4 wire)
5. Electrical wiring
6. Ring Nut M30x1,5
7. O-Ring
8. Spacer



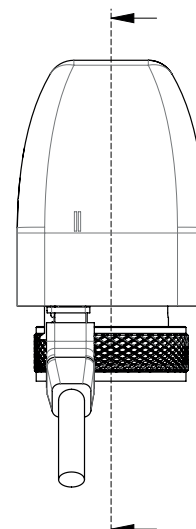
26LC



Normally closed

Features

1. Ring Nut M30x1,5
2. Spring
3. Wax thermostatic element
4. LEDs
5. Microswitch (4-wire)
6. Cable connector



Technical features				
	22C	22CX	22CX5	26LC
Action	ON/OFF	ON/OFF	ON/OFF	ON/OFF
Type of movement	Linear	Linear	Linear	Linear
Power supply	230 V a.c. 24 V a.c./d.c. (+10%÷-15%)	230 V a.c. 24 V a.c./d.c. (+10%÷-15%)	230 V a.c. 24 V a.c./d.c. (+10%÷-15%)	24-230 V a.c. (+10%÷-15%)
Frequency	50 ÷ 60 Hz	50 ÷ 60 Hz	50 ÷ 60 Hz	50 ÷ 60 Hz
Power consumption (continuous duty)	1,8 W (230V) 1,6 W (24V)	1,8 W (230V) 1,6 W (24V)	1,8 W (230V-24V)	1,8 W (230V) 1,6 W (24V)
Initial opening time (NC) or closing time (NO) (230V) (Power on) 230V.	75 s.	75 s.	70 s.	75 s.
Final opening time (NC) or closing time (NO) (Power on) 230V.	3 min.	3 min.	5 min.	3 min.
Initial opening time (NC) or closing time (NO) (Power on) 24V.	3 min.	3 min.	95 s.	3 min.
Final opening time (NC) or closing time (NO) (Power on) 24V.	5 min.	5 min.	6 min.	5 min.
Actuator stroke	max 3,5mm	max 3,5mm	max 5mm	max 3,5mm
Auxiliary microswitch not energized (4-pole model)	max 700 (3A) mA - 250 V a.c.	max 700 (3A) mA - 250 V a.c.	max 700 (3A) mA - 250 V a.c.	max 700 (3A) mA - 250 V a.c.
Protection class	IP44 to EN60529	IP54 to EN60529	IP54 to EN60529	IP64 to EN60529
Electrical Protection class	Class II	Class II	Class II	Class II
Pollution rating	Grade 2	Grade 2	Grade 2	Grade 2
Nominal closing force (power OFF)	110 N (±10%) (NC) 80N (±10%) (NO)	110 N (±10%) (NC) 80N (±10%) (NO)	110 N (±10%) (NC)	110 N (±10%) (NC)
Operating temperature range	0÷50°C	0÷50°C	0÷50°C	0÷50°C
Storage temperature limit	-25÷60°C	-25÷60°C	-25÷60°C	-25÷60°C
Fluid temperature limit	110°C	110°C	110°C	110°C
Plastic cover	Polyamide +30F.V. flame retardant RAL 9016	Polyamide +30F.V. flame retardant RAL 9016	Polyamide +30F.V. flame retardant RAL 9016	ABS V0 flame retardant RAL 9016
Electrical cable	2-pole x 0,75mm ² 1m length* 4-pole x 0,75 mm ² 1 m length*	2-pole x 0,5mm ² 1m length*4-pole x 0,5 mm ² 1 m length*	2-pole x 0,5mm ² 1m length*4-pole x 0,5 mm ² 1 m length*	2-pole x 0,5mm ² 1m length*4-pole x 0,5 mm ² 1 m length*
Valve connection	Threaded ring nut M30x1,5	Threaded ring nut M30x1,5	Threaded ring nut M30x1,5	Threaded ring nut M30x1,5

* Special cable length on request

Reliability of the electrothermic actuators **22C**, **22CX**, **22CX5** and **26LC Series** is guaranteed due to 100% testing of the production.