

ACTUATOR FOR DAMPERS WITH SPRING RETURN (max. 0.8 m² - 4 Nm)

E 952 16.12.08 MC REV. 01



CFL 1...

CFL 12.. - CFL 134 - CFL 104

• Power supply:

- CFL ..8 (230 V~) - CFL ..4 (24 V~/-)

• Electric control:

- SPST (CFL 12..)
- SPDT (CFL 134)
- progressive 2...10 V- (CFL 104)

Rotation:

- angle max. 95°
- run time 75 s (150 s- CFL 134/104)
- time to emergency 20 s
- Installation:
 - directly on damper shaft



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CFL 12../C

1. APPLICATION

CFL ... actuators are designed for the operation, with linear rotary movement, of dampers in ventilating and airconditioning sites.

Their available torque (4 Nm) permits operating dampers up to 0.8 m2 provided that these have a very well-balanced movement.

2. MODELS

Code	Power supply & consumption	Max amgle	Run time	Emergency time	Torque	Control	Auxiliary switch supplied
CFL 128 CFL 128/C CFL 124 CFL 124/C	230 V~ ± 10% (7 VA) 230 V~ ± 10% (7 VA) 24 V~/- ± 20% (7 VA) 24 V~/- ± 20% (7 VA)	95° 95° 95° 95°	75 s 75 s 75 s 75 s	20 s 20 s 20 s 20 s	4 Nm 4 Nm 4 Nm 4 Nm	SPST SPST SPST SPST	
CFL 134 CFL 104	24 V~/- ± 20% (7 VA) 24 V~/- ± 20% (5 VA) 24 V~/- ± 20% (5 VA)	95° 95°	150 s 150 s	20 s 20 s	4 Nm 4 Nm	SPDT 210 V-	— — —

3. ACCESSORIES (optional)

Code	Description
PCS 104 KH 8 KH-LF KG 10 ZG-LF1	Built-in manual positioner 0100% (only for actuators with 2 10 V- control) Universal crank arm for damper shafts; (Ø 10 18 mm 中10 14 mm.). Actuator arm (specific for CFL actuators). Ball joint for connection (for rods with Ø 10 mm. max.). Kit for mounting actuators on a flat surface (specific for CFL actuators)

4. TECHNICAL DATA

Power supply:		Type of control	see "Models"
- CFL8 - CFL4 Frequency Consumption: - CFL 128/124 - CFL 134/104	230 V~ ± 10% 24 V~/- ± 20% 5060 Hz 7 VA (5 W) 5 VA (2.5 W)	Electrical connections - CFL 12 (1cable: control) - CFL 12/C (2 cables: control & auxiliary control) - CFL 134/104 (1cable power 6 control) Ambient temperature:	1m, 4 x 0.75 mm ²
Torque Run time / Emergency Direction of rotation Rotation angle	4 Nm see "Models" according to installation max.95°(adjustable)	 operation transport & storage Humidity Protection Weight: 	- 30+50 °C - 40+80 °C orms to EN 60335-1 IP 54 about 1.5 Kg

5. INSTALLATION

Before attaching the actuator to the damper, carry out the following preliminary checks in order to avoid any difficulties at the moment of installation.

Check

- that there is sufficient space available for installing the actuator; plenty of room is essential
- the dimensions of the dampers (max. 0.8 m2) and their balance on the shaft.
- that the actuator has all the parts necessary for its correct installation.

The actuator must be installed directly on the damper shaft (for measurements see section 8).

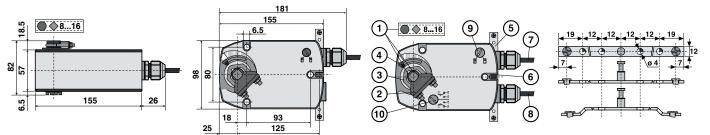




Position the damper at about half run, insert the actuator on the shaft and, using the anti-torsion adjustable bracket supplied, secure it; secure also the shaft by means of the assembled motor block. Make the electrical connections observing the safety regulations in force.

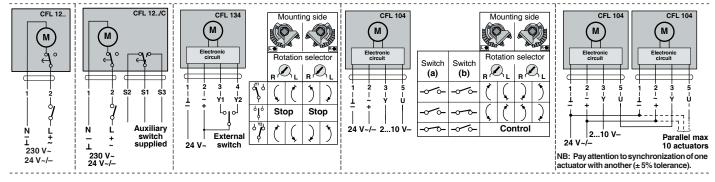
N.B. To lengthen the cables supplied do NOT – répeat NOT - use telephone or similar cables. It is possible to connect several actuators in parallel, but attention must be paid to their technical features.

6. OVERALL DIMENSIONS

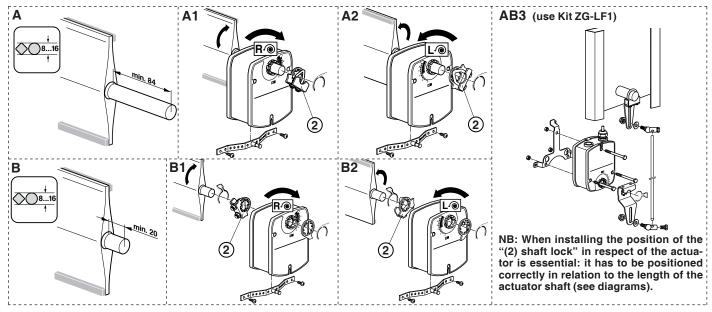


- 1 Damper shaft
- 2 Shaft clamp
- 3 Shaft securing clamp
- 4 End-of-run stop
- 5 Anti-torsion bracket
- 6 Housing blocking shaft
- 7 Electric connecting cable
- 8 Auxiliary switch connecting cable
- 9 Direction of rotation switch (only CFL 134)
- 10 Control auxiliary switch (only CFL 12../C)

7. WIRING DIAGRAMS



8. INSTALLATION SEQUENCE



Amwndments to data sheet

Date	Revision No.	Page	Section	Amendment description
07.11.05 MC 07.04.06 MC 16.12.08 MC		- 1-2 1 2	General General - 7. Wiring diagrams 3. Accessories 8. Installation sequence	Layout Data Sheet. Arrangement data & page layout. Added: diagrams & descriptive tables. Added: specific accessories for installing actuator, (KH-LF, ZG-LF1). Replaced all the drawings and table at foot of page



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