

Positioners suitable for use with the modulating damper actuators CM24-SR and ..M24A-SR or ..M230ASR



Technical data		
Electrical data	Nominal voltage	AC 24V 50/60 Hz / DC 24V
	Dimensioning	0.7 VA, without actuators
	Power supply range	AC/DC 19.2 28.8V
	Connections	Terminal block 1 3: 2.5 mm <sup>2</sup> Terminal block 4 8: 1.5 mm <sup>2</sup>
Functional data	Operation	
	<ul> <li>Rotary knob for setpoint adjustment</li> </ul>	0 100%
	Communication connection for field devices	2 x PP (for PC-Tool, ZTH-GEN, etc.)
Input	1 x digital	
	<ul><li>Digital input</li></ul>	Contact rating 10 mA
Output	1x analogue	
•	- Control signal Y	0/2 10V, max. 1 mA
Norms and Standards	Protection class	III Safety extra-low voltage
	Degree of protection	IP30 (EN 60529)
	Mode of operation	Type 1 (EN60730-1)
	EMC	CE in accordance with 2004/108/EC
	Ambient conditions	
	<ul><li>Operation</li></ul>	0 +50°C / 20 90% r.h. (non-condensating)
	<ul> <li>Transport and storage</li> </ul>	-25 +70°C / 20 90% r.h. (non-condensating)
Dimensions / Weight	Dimensions (H x W x D)	99 x 84 x 32 mm
	Weight	105 g
Housing colours	Baseplate	NCS2005-R80B light grey
	· 	(corresponds approximately to RAL 7035)
	Cover	RAL9003 signal white

#### Safety notes



- The controller is not allowed to be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- It may only be installed by suitably trained personnel. Any legal regulations or regulations issued by authorities must be observed during Installation.
- The device does not contain any parts that can be replaced or repaired by the user.
- The device contains electrical and electronic components and is not allowed to be disposed
  of as household refuse. All locally valid regulations and requirements must be observed.

#### **Product features**

**Application** The positioner is used for the control of modulating damper actuators. It can also be used as a minimum positioner or together with temperature controllers for shifting setpoints.

Large range The adjustment range is 0 ... 100%. Proportionate to the position of the rotary knob, a control signal Y is generated which is either DC 2 ... 10 V or DC 0 ... 10 V or a position change occurs

at the actuator within the range of 0 ... 100% (Min ... Max).

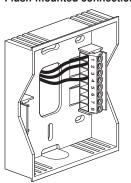
Simple conversion The changeover from DC 2 ... 10 V to DC 0 ... 10 V is simple to accomplish by means of a slide

switch under the front cover.

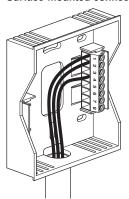


# **Electrical installation**

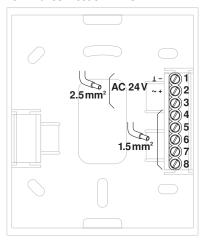
# Flush-mounted connection



## Surface-mounted connection



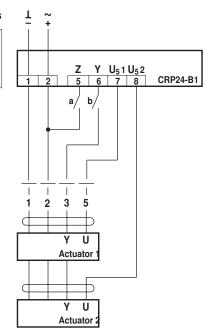
#### Terminal connection 1 ... 8



# Wiring diagrams

# Information

- Connection via safety isolating transformer.
   Parallel connection of other actuators possible. Pay attention to the power data.



а	b	Υ
	/_	0%
/_	<u> </u>	0 100%
Ł		0%
Ł	1	100%



# **Electrical installation**

## (Continued)

2 3

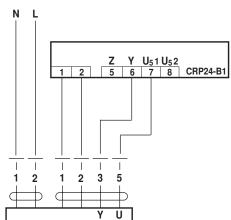
U

Actuator

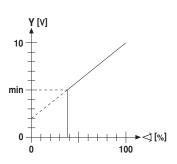


CRP24-B1

Y U<sub>5</sub>1 U<sub>5</sub>2



Actuator ..230ASR



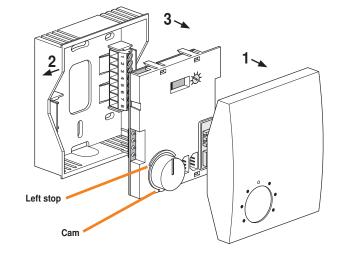
## **Mechanical installation**

- 1. Remove the housing cover.
- 2. Pull out slightly the wall of the housing to release the pcb.
- 3. Remove the PCB.

## Rotary knob for setpoint adjustment

If the rotary knob has been removed proceed as follows:

- a. Insert the rotary knob approximately half way and turn it clockwise as far as the stop.
- b. Remove the knob and align it so that the cam is flush with the left stop (see left).
- c. Insert the knob fully.



## **Dimensions [mm]**

