

# Thermal actuators



**Application** For setting the hot water valves in radiators or AFRISO distribution manifolds such as heating/cooling circuit manifolds ProCalida® MC and EF or industrial manifolds IN. Actuators convert the electrical signal received from room or timer thermostats into a valve stroke to adjust the set temperature.

## TSA-02

**Description** Electro-thermal actuator with position indication, connection cable and union nut for direct connection to the valve or upper part of the valve. Closed when de/energised; available as 24 V or as 230 V version.

### Technical specifications

#### Operating mode

Closed when de-energised

#### Stroke

0/3.2 mm

Indication via cams on hood

#### Opening time

< 5 min

#### Operating temperature range

Ambient: Max. 60 °C

#### Supply voltage

DC 24 V or AC 230 V

#### Connection

Union nut: M 30 x 1.5 mm

Closing dimension: 10.8 mm

Cable length: 1 m

#### Housing

Plastic

Degree of protection: IP 54 (EN 60529)

## TSA-03

Electro-thermal actuator with position indication, limit switch, connection cable and union nut for direct connection to the valve or upper part of the valve. Closed when de-energised. TSA-03 can be used to switch off the pump via the integrated limit switch when all valves are closed.

#### Operating mode

Closed when de-energised

#### Stroke

0/3.2 mm

Indication via cams on hood

#### Opening time

< 5 min

#### Operating temperature range

Ambient: Max. 60 °C

#### Supply voltage

DC 24 V or AC 230 V

#### Connection

Union nut: M 30 x 1.5 mm

Closing dimension: 10.8 mm

Cable length: 1 m

#### Housing

Plastic

Degree of protection IP 40 (EN 60529)

7

### i

AFRISO offers customer-specific versions of the actuators for many valve upper parts for OEMs. We look forward to your enquiry.

DG: G			Part no.	Price €
<b>TSA-02</b> , 230 V	1	10	78882	
<b>TSA-02</b> , 24 V	1	10	78883	
<b>TSA-03</b> , 230 V with limit switch	1	10	78871	
<b>TSA-03</b> , 24 V with limit switch	1	10	78872	