

Digital position indicator, suitable for modulating damper actuators LM24A-SR, NM24A-SR, SM24A-SR, GM24A-SR, AF24-SR and LF24-SR

- For flush mounting






**Technical data**

<b>Electrical data</b>	Nominal voltage	AC 24 V, 50/60 Hz
	Nominal voltage range	AC 19.2 ... 28.8 V
	Power consumption	4 VA
	Connection	4-pole plug
<b>Functional data</b>	indication signal U/I	DC 2 ... 10 V (from actuator)
	Input resistance	>100 kΩ
	Starting point $U_0$	DC 0 ... 12 V
	Span $\Delta U$	DC 3 ... 12 V
	Factory setting	$U_0 = DC 0 V$ , $\Delta U = DC 10 V$
	Position indication	0 ... 99%
	Measuring accuracy	0.5% $\pm 1$ digit
	Direction of rotation	selected by wiring
<b>Safety</b>	Protection class	III Safety extra-low voltage
	Degree of protection	IP20
	EMC	CE according to 89/336/EWG
	Mode of operation	Type 1 (to EN 60730-1)
	Ambient temperature range	-0 ... +50 °C
	Humidity test	To EN 60730-1
<b>Dimensions / Weight</b>	Dimensions	See «Dimensions» on page 2
	Weight	Approx. 240 g

**Safety notes**


- The position indicator is not allowed to be used outside the specified field of application, especially not in aircraft or any other form of air transport.
- Assembly must be carried out by trained personnel. Any legal regulations or regulations issued by authorities must be observed during assembly.
- The device may only be opened at the manufacturer's site. It 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**

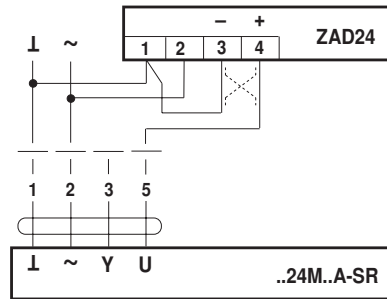
<b>Application</b>	The digital position indicator allows the remote indication of damper position from damper actuators.
<b>Setting the indicator</b>	<p>Remove the snap-fit front plate to give access to the two trimmer potentiometers <math>U_0</math> and <math>\Delta U</math> and also the indicator LEDs.</p> <ol style="list-style-type: none"> <li>1. Check the wiring and energize the power supply.</li> <li>2. Move the damper/actuator to the «Closed» position.</li> <li>3. Setting the zero: If the left-hand LED is on, turn the trimmer <math>U_0</math> clockwise  until 0% is indicated. If the right-hand LED or indicator is on, turn the trimmer <math>U_0</math> anti-clockwise .</li> <li>4. Move the damper/actuator to the «Open» position.</li> <li>5. Setting the working range: If the right-hand LED is on, turn the trimmer <math>\Delta U</math> anticlockwise  until 99% is indicated. If less than 99% is being indicated, turn the trimmer <math>\Delta U</math> clock-wise .</li> </ol> <p>The ZAD24 position indicator is supplied fitted with a link between terminals 1 and 3, i.e. the direction of rotation is dw (direct acting).</p>

## Electrical installation

### Wiring diagram

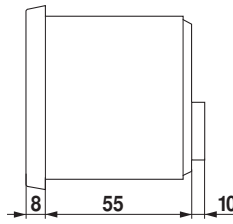
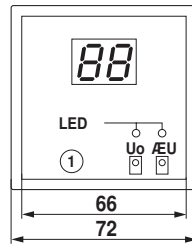
#### Note

Connection via safety isolating transformer.



## Dimensions [mm]

### Dimensional drawings



Front 72 x 72 mm  
 Front cutout 68 x 68 mm  
 Mounting depth ca. 80 mm

① Trimmer potentiometer