Technical data sheet P500A

Feedback potentiometer for damper actuators and rotary actuators
- **Nominal resistance 500 Ω**
- **add-on**

Technical data

Electrical data	Nominal resistance	500 Ω
	Tolerance	±5%
	Loading capacity	Max. 1 W
	Linearity	±2%
	Resolution	Min. 1%
	Residual resistance	Max. 5% on both sides
	Connection feedback potentiometer	Cable 1 m, 3 x 0.75 mm² halogen-free
Safety	Protection class IEC/EN	III Safety extra-low voltage
	Protection class UL	UL Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2, UL Enclosure Type 2
	EMC	CE according to 2014/30/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	Certification UL	cULus according to UL 60730-1A, UL 60730-2-14 and CAN/CSA E60730-1:02
	Mode of operation	Type 1
	Rated impulse voltage supply	0.8 kV
	Control pollution degree	3
	Ambient temperature	-30...50°C
	Non-operating temperature	-40...80°C
	Ambient humidity	95% r.h., non-condensing
	Maintenance	Maintenance-free
Weight	Weight	0.19 kg

Safety notes

- The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- 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.
- Cables must not be removed from the device.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.

Product features

Mode of operation

A carrier plate uses adaption to make a positive fit on the spindle clamp (damper actuators) or on the position indication (rotary actuators) and transfers the position directly to the feedback potentiometer.

Application

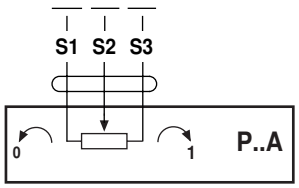
The feedback potentiometer unit is used for modulating damper control in connection with controllers with fixed feedback. The feedback potentiometers can also be used in conjunction with commercially available systems for damper position indication or as positioners for parallel running actuators.

Simple direct mounting

The feedback potentiometers are attached directly by the spindle clamp (damper actuators) or on the position indication (rotary actuators). The guiding grooves between the housing and the switch ensure a tightly sealing fit.

Electrical installation

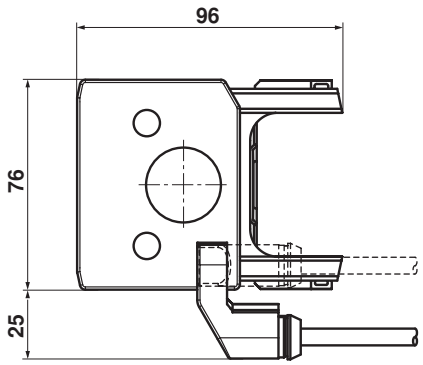
Wiring diagrams



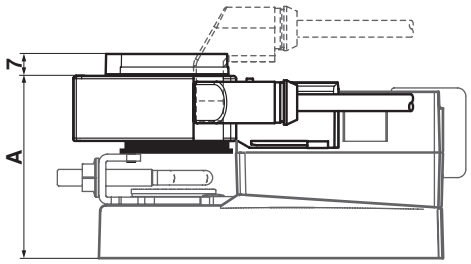
Cable colours:
S1 = violet
S2 = red
S3 = white

Dimensions [mm]

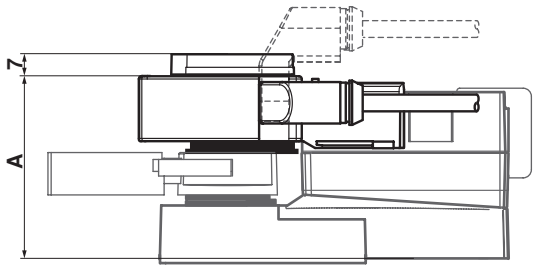
Dimensional drawings



	A		A
TM..A.., LM..A..	66	**LMQ..A..**	80
NM..A..	69	**NMQ..A..**	83
SM..A..	71	**SMQ..A..**	89
SMD..A..	71	**NKQ..A..**	87
GM..A..	78	**GK..A..**	94



	A		A
TR..A.., LR..A..	66	**LRQ..A..**	80
NR..A..	69	**NRQ..A..**	83
SR..A..	71	**GRK..A..**	94
GR..A..	78		



	A
DR..A..	78