

## Technical data sheet

# Feedback potentiometer for damper actuators and rotary actuators

• Nominal resistance 10 k $\Omega$ 



#### **Technical data**

Tolerance±5%Loading capacityMax. 1 WLinearity±2%ResolutionMin. 1%Residual resistanceMax. 5% on both sidesConnection potentiometerCable 1 m, 3 x 0.75 mm² halogen-freeSafety dataProtection class IEC/ENIII, Safety Extra-Low Voltage (SELV)Power source ULClass 2 SupplyDegree of protection IEC/ENIP54EMCCE according to 2014/30/EUCertification IEC/ENIEC/EN 60730-1 and IEC/EN 60730-2-14UL ApprovalcULus according to UL60730-1A, UL607 and CAN/CSA E60730-1Type of actionType 1Rated impulse voltage supply0.8 kVPollution degree3	
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Rated impulse voltage supply 0.8 kV	0-2-14
Pollution degree 3	
Ambient humidity Max. 95% RH, non-condensing	
Ambient temperature -3050°C [-22122°F]	
Storage temperature -4080°C [-40176°F]	
Servicing maintenance-free	
Weight Weight 0.20 kg	
Housing colours Housing cover grey	
Housing base grey	

Safety notes
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- The device must not be used outside the specified field of application, especially not in aircraft or in any other airborne means of transport.
- Outdoor application: only possible in case that no (sea) water, snow, ice, insolation or aggressive gases interfere directly with the device and that it is ensured that the ambient conditions remain within the thresholds according to the data sheet at any time.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with 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**

Operating mode	A carrier plate uses adaptation to make a positive fit on the shaft 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 shaft clamp (damper actuators) or on the position indication (rotary actuators). The guiding grooves between the housing and the switch ensure a tightly sealing fit.

Accessories

Mechanical accessories	Description	Туре
	Adapter for auxiliary switch and feedback potentiometer, Multipack 20 pcs.	Z-SPA

#### **Electrical installation**

#### Wire colours:

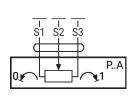
S1 = violet S2 = red

S3 = white

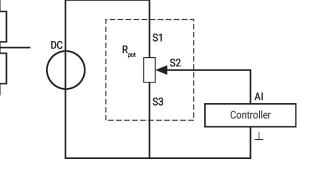
55 White

#### Wiring diagrams

Potentiometer







If the potentiometer is mainly operated in the same small angle range, we recommend wiring it as a voltage divider.



### Dimensions

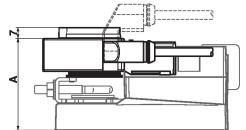
	A		A
TMA., LMA.	66	LMQA	80
NMA	69	NMQA	83
SMA.	71	SMQA	89
SMDA	71	NKQA	87
GMA	78	GKA	94

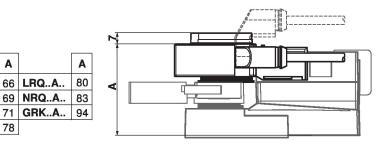
A

78

66 LRQ..A..

69 NRQ..A..





-3

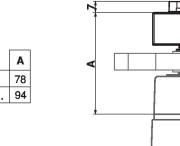


TR..A.., LR..A..

NR..A..

SR..A..

GR..A..



A

80

