



Signal Conditioners for Position Measurement

Series MUK 350



Special features

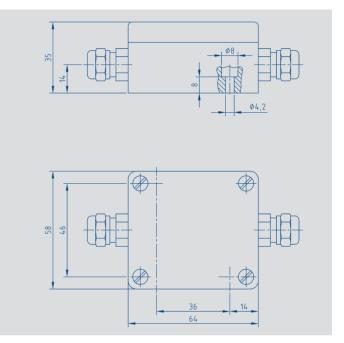
- Interface module for position sensors
- Aluminium die-cast housing; Protection class IP 66
- standardized output signals 0... 10 V
- ± 10 V 0 ... 20 mA
- 4 ... 20 mA
- outstanding linearity
- extremely low temperature drift 30 ppm/K (typical value) • zero point and range adjustable

The signal conditioner supplies the position sensors with a highly stable constant voltage. The wiper signal is picked off without load via a highresistance input stage and transformed into a displacement or rotationally proportional standardized output signal.

The excellent linearity. low temperature drift and sensorproximity of the signal conditioning process ensure full utilization of the outstanding benefits of the position sensors, guaranteeing the reliable, interference-free transmission of signals even over long distances.

The zero point and range can be adjusted independently of each other within wide limits using spindle trimmers. This facility permits standardized output signals to be adjusted even if the maximum stroke / angle of the sensor is not completely utilized. The electronic circuitry is accommodated in an aluminium die-cast housing conforming to protection class IP 66. The UNI-sealed threaded joint ensures a correct EMC coupling of the cable shield. The wide operating voltage range allows the unit to be supplied with an unstabilized direct voltage source. Selected SMD components with a wide temperature range guarantee maximum operating reliability even under extreme environmental conditions.

The MUK 350 is connected by means of a four-pole terminal strip.



Dimensions	see drawing	
Protection class	IP 66 (DIN 400 50 / IEC 529)	
UNI-sealed threaded joint	PG 7	
Diameter of cable	46.5	mm
Screw-type terminals	1.0	mm ²
Weight	app. 200	g
Electrical Data		
Operating voltage	1830	VDC
Input resistance	> 10	MΩ
Reverse voltage protection	integrated	
Max. current consumption	35	mA
Internal reference voltage for the position sensor, highly stable and short circuit-proof	10	VDC
Permissible connection-resistance of the position sensor	≥ 700	Ω
Adjustment range: Zero point Gain	20 12	%
Linearity	typical 0.01% FS	%
Temperature coefficient *	30	ppm/K
Temperature range *	-25+70	°C

* The TC applies for current and voltage outputs. If the voltage is picked off at the load resistor, the TC of the resistor must also be taken into account.

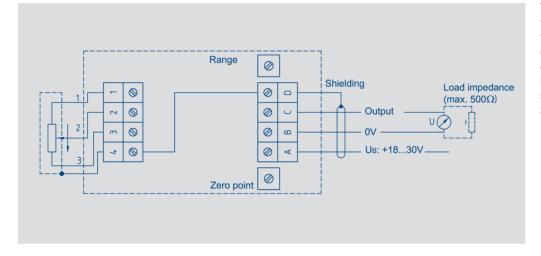
Novotechnik Messwertaufnehmer OHG

Postfach 4220 73745 Ostfildern (Ruit) Horbstraße 12 73760 Ostfildern (Ruit)

Tel. +49 (0) 711/4489-0 Fax +49 (0) 711/4489-150 info@novotechnik.de www.novotechnik.de

© 12/2001 Art.-Nr.: 062 757 Printed in Germany

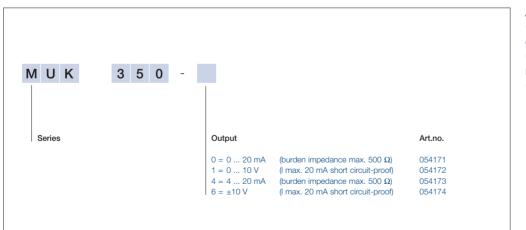
Connecting diagram



The output signal rises when the wiper is moved from position 1 to 3 (see connection diagram in the corresponding data sheet).

For the reverse function, simply switch the connections 1 and 3 in the MUK housing.

Order designation



Available on request:

with different output voltageswith extended adjustment

range

• with digital serial interface

Subject to changes.