

The adapter sns/rs/i converts the resistance of a potentiometer to an appropriate current (0.2-1 mA). The cable is connected in the terminal box through a standard PG connection.

Mounted in a socket, a protection class of IP68 is guaranteed. After connecting the sensor cables and inserting the part in the socket it has to be fixed with a VA-pin (sns/nt:3.1726).

A 2-wire connection is enough for power supply and sensor output. If pin 2 is not connected, an output signal between 1.1-1.2 mA is produced.

Picture: sns/rs/i Adapter 0.2-1 mA

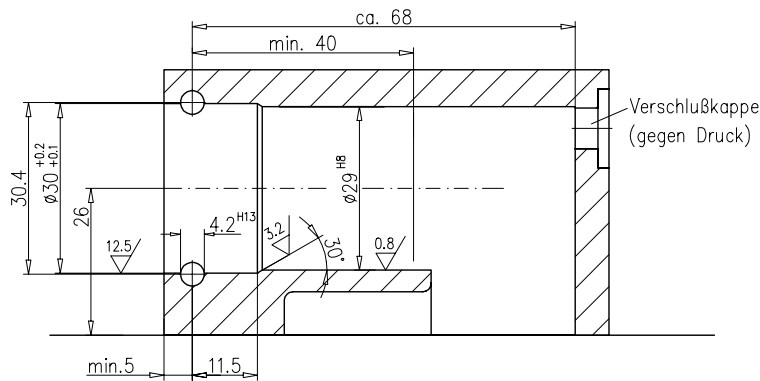
Pinning		Function
1	potentiometer A	0.2 mA
2	pick-up	
3	potentiometer B	1 mA
Connector		
1	+UB 12 VDC	
2	current output	

Features

Power supply	12 VDC (10-30 VDC)
Input	Potentiometer 20-1000 k Ω
Output	0.2 - 1 mA (Wipe open: >1.1 mA)
Temperature	-20 bis 60 °C
Protection class	IP68
Precision	1 %
Approval ATEX	EX I M1 EEx ia I, INERIS 03ATEX0116
Approval Russia	РОСС DE.ГБ05.В01024 NANIO CCVE PPC BA-13670 Gosgortekhnadzor

Input parameters

Reed rod type	U_i	I_i	L_i	C_i
adapter	13.2 V	2 A	0	1 μ F in series with 199.6 Ω



Picture: *sns/rs/is* Welded Socket

Applications

In the reed rod *sns/rs* reed contacts and resistors are placed in a chain. Using a ring magnet as pick-up, the reed rod works like a potentiometer. The adapter *sns/rs/i* includes a converter, which transforms the resistance of the potentiometer to a proportional 2-wire current signal.

The socket can be welded, screwed or plugged. Other sockets can be manufactured according to customer specification.

- Put the cable into the PG-connection and tighten.
- Mount cable according to the pinning table.
- Put grease on the O-rings and insert the connector into the socket while turning left and right.
- Fix the socket with an *sns/nt:3.1726* type pin.
- The sensor output at the endpoints has to be tested and protocolled.

Order Number	Release	Description
<i>sns/rs/i</i>	2.1	Adapter 0.2-1 mA
<i>sns/rs/i+s</i>		Adapter 0.2-1 mA, plugged socket and pin
<i>sns/nt:3.1726</i>		Pin for <i>sns/rs/i</i>
<i>sns/rs/is</i>		Welded socket for <i>sns/rs/i</i>
<i>sns/nt:3.2609</i>		Screwed socket for <i>sns/rs/i</i> (hug1), R 1/2" screw connection
<i>sns/nt:3.5202</i>		Plugged socket for <i>sns/rs/i</i> (wal1), DN20 compatible