



The reed transducer type *sns/rs/c* measures the position of the piston in a hydraulic cylinder. It is composed of a densely packed chain of reed switches and resistors mounted in a seamless stainless steel tube.

Picture: Reed Transducer , *sns/rs/c* 22mm diameter

Marco order numbers for reed transducers "*sns/rs/c, ci, cj, cu<xxx><y>*" where the identifier "*c*" stands for the type of rod used, contain the following information:

- sns/rs/c* with potentiometer
- sns/rs/ci* with integrated converter (output 0.2 - 1 mA),
- sns/rs/cj* with integrated converter 60° (output 0.2 - 1 mA),
- sns/rs/cu* with power output, (0.5 - 4.5V)
- <xxx> specifies the active stroke in mm (L1 in drawing),
- <y> specifies details like electrical interface, cable length, connector type.

Cable lengths are measured as follows: Lumberg - from seal to end of connector
 Marco - from seal to wire end ferrule.

Reed transducer types:

<i>sns/rs/c</i>	3150	3150a	3300	i1830.2	j1830.2	u3000a
Cable length	1200	1200	220	ohne	ohne	1200
Connection	cable	Lumberg	cable	conm	conm	Lumberg
Scaling	Marco	Hemscheid	Marco	I-Output	I-Output	U-Output
Adapter	<i>sns/rs/i</i>	<i>sns/rs/ih</i>	<i>sns/rs/i</i>	internal	internal	internal:U-Output external: <i>sns/rs/adp/t</i>

All lengths are in millimetres.

Connection		type <i>c</i>	type <i>cu</i>
Cable	1 white	piston side	+ UB
	2 brown	pick-up	Signal
	3 green	cyl. side	GND
Lumberg	1 brown	piston side	+ UB
	3 blue	pick-up	signal
	4 black	cyl. side	GND



Operating pressure	500bar
Resolution	4 mm
Connection	3 wire cable, 5 mm Ø
	or Lumberg or conm
Approval ATEX	I M1 EEx ia I, INERIS 03ATEX0116
Approval Russia	POCC DE.ГБ05.В02014 NANIO CCVE
	PPC 00-25498 Rostekhnadzor

Input parameters

Reed rod type	U_i	I_i	L_i	C_i
with power output	13.2 V	2 A	0	1 μ F in series with 322.6 Ω
adapter	13,2 V	2 A	0	1 μ F in series with 199.6 Ω
with current output	13.2 V	2 A	0	1 μ F in series with 199.6 Ω

Application

The *sns/rs/c* reed transducer is activated by a magnet type *sns/rs/magn.x* (*). Its pressure resistant design suits it for use in high-pressure hydraulic cylinders.

The marco reed transducers are designed to be used with marco magnets. The resolution specified by marco can only be attained by using marco magnets as only these have the magnetising zones required by our reed transducers.

(*) refer to data sheet *doc:D/sns/rs/006*.

Order Number	Release	Description
<i>sns/rs/c<xxx><y></i>	2.0	Reed Transducer, for stroke of <xxx> mm, type <y>
<i>sns/rs/ci<xxx><y></i>	2.0	Reed Transducer, current output, for stroke of <xxx> mm, type <y>
<i>sns/rs/cj<xxx><y></i>	2.0	Reed Transducer, current output, for stroke of <xxx> mm, type <y>
<i>sns/rs/cu<xxx><y></i>	2.0	Reed Transducer, power output, for stroke of <xxx> mm, type <y>