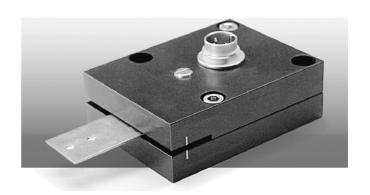


Inductive Slot Transducer

Series SM48

- Through passing measuring vane
- Several measuring vane possible
- Stroke up to 20mm
- Integral electronic circuit
- **Protection class IP66**
- accuracy 0.5%



Construction and operating principle:

The slot transducer contains two coil systems facing each other but separated by an air gap. The measuring vane changes the magnetic coupling of the coil systems. The integral electronic circuit is mounted in an anodised aluminium housing.

Standard-stroke

20mm

Standard versions

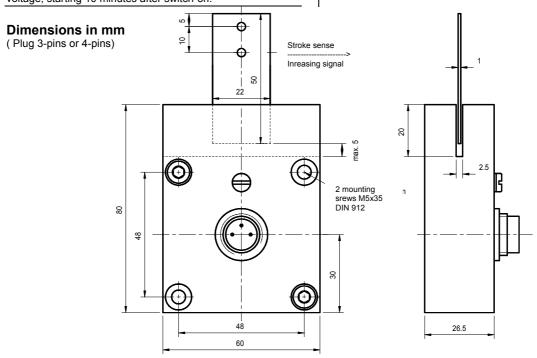
Туре	output	Supply voltage U _B *	signal**	mid
SM481	0 20 mA	20 32 V	increasing	10 mA
SM482	0 20 IIIA	20 32 V	decreasing	TOTHA
SM483	4 20 mA	20 32 V	increasing	12 mA
SM484	4 20 IIIA		decreasing	
SM485	± 10 V	±13 ±16 V	increasing	0 V
SM486	± 10 V	±13 ±10 V	decreasing	O V

Note: Unless otherwise stated, all values are valid at +20°C Ambient temperature and 30 VDC or ±15 VDC supply voltage, starting 10 minutes after switch-on.

Technical data:

. common data.		
accuracy	< 0,5%	
Temperatur drift	< 0,01% / °C	
Temperatur range	-20°C bis +85°C	
Measurment frequency	800Hz	
Resistance to shock	20g SRS 20-2000Hz	
Resistance to vibration	3g rms (20g Spitze)	
Protection class	IP66 *	

^{*} with mounted mating plug Bi 723.M



^{*} Pole reversal protection
** Increasing signal by moving the measuring vane from left to the right side.



Current output (SM481 / SM483):

Garront Gatpat (Gin-1017 Gin-100):		
Output signal	020 mA or 420 mA	
Supply current I _B	max. 60 mA	
Load resistance R _L	0500Ω	
Residual ripple	< 0,005 mA _{SS}	
Dependence on R _L	$< 0.001\%$ for $\Delta R_L = 100\Omega$	
Dependence on Vs	< 0,05% for ΔU_B = 1V	
Max. output current	25 mA	

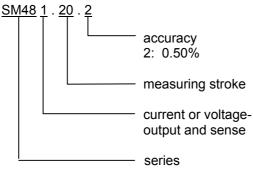
Voltage output (SM485):

tonago oatpat (om-100):		
Output signal	±10 VDC	
Supply current I _B	max. 50 mA	
Permissible load R _L	\geq 2 k Ω (short-circuit proof)	
Residual ripple	< 5 mV _{SS}	
Dependence on Vs	< 0,05% for∆U _B = 1V	

Materials and masses

housing	Alu, black anodised
Measuring vane	copper
plug shell / connector shell	brass nickel-plated
Mass	~250g
Contacts	Gold-plated

Order code



Order codes for customer specified versions will be named at plant.

For example SM481.20.2

transducer series 48, output 0-20mA, 20mm stroke, accuracy 0.5%

additional versions:

- different supply voltage and output signals
- Cable output with Pg-fastener .K

Mating plugs

IP40: Binder Ser. 681 3PS/4PS

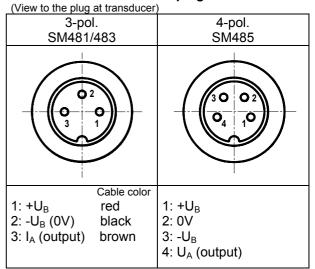
Metal case

(must be orderd separately) IP66: Binder Ser. 723M 3PS/4PS

Metal case with outer ring connected to ground

(must be orderd separately)

Electrical connections on plug



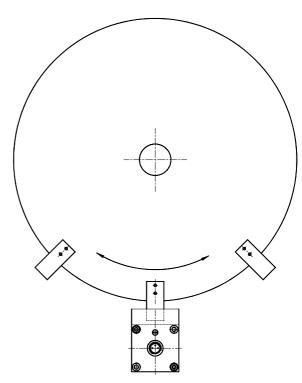
Cable output .K

accessories

Additional measuring vanes S	SM907.480
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example for use

exact positioning of a machine table





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