Type 5240A..., 5242A...

Rotor and Stator for Digital Data Transmission

Module for transmitting supply voltage and measuring data. Additionally measures the wheel angle. The transmission unit is used in conjunction with the Type 9891A... on-board electronics system and Type 5241A... wheel electronics.

- Transmission from wheel in-board to vehicle
- Accurate measurement of angular position
- No projections beyond vehicle extremities
- · All-weather use
- Special off-road version available

Description

The transmission module consists of a Type 5242A... rotor (ring antenna) and Type 5240A... stator. It transmits the supply voltage for the electronic components and bridges inductively. It also transmits the flow of data conditioned by the Type 5241A... wheel electronics unit to the inside of the wheel and into the non-rotating areas of the vehicle. The connection to the Type 9891A... on-board electronics system is made with extension cable Type Z30430A... connected to the stator. Transmission continues even with the wheel stationary. The Type 5248A0... out-board transmission unit is offered for the V6HT and S6HT measuring wheels and special cases.

Applications

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System 2000 has been developed for transmitting and processing the load signals from the RoaDyn P625, P650, S625, S635 and S650 System 2000 measuring wheel systems. This ensures all of these System 2000 measuring wheels can be operated with a single on-board electronics system that also allows transmission and recording of additional data. Matching signal amplification and conversion modules for the additional sensors are also offered.

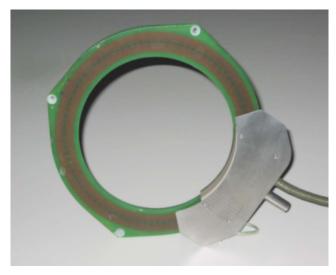


Fig. 1: In-board transmission consisting of rotor and stator

Technical Data

Stator Type 5240A...

71		
Dimensions (LxWxH)	mm	98x55x18,5
Weight		
Stator		
with 1,5 m cable and heat shield	kg	0,26
for example Stator bolt, L30	kg	0,021
for example Stator bolt, L40	kg	0,028
for example Stator bolt, L50	kg	0,034
Operating temperature range	°C	–20 120

Rotor Type 5242A...

Weight			
Transmission ring, M41	kg	0,30	
Transmission ring, M52, M62	kg	0,3	
Power transmission		inductive	
Data transmission	Mbit/s	2	
Angle measurement	permar	permanent magnets	

Page 1/2



Fig. 2: Stator mounted on vehicle

Ordering Key		
	Type 5	240A1,5
		1
Stator		
Bolt length 25 mm	25	
Bolt length 30 mm	30	
Bolt length 40 mm	40	
Bolt length 50 mm	50	
Bolt length 60 mm	60	
Bolt length 70 mm	70	
Bolt length 100 mm	100	

	Туре	5242A 🔲 🔲
Rotor		
Piezoelectric sensors (RoaDyn P)	1	
Number of strain gage sensors 4	4	
(RoaDyn S/V)		
Number of strain gage sensors 5	5	
(RoaDyn S/V)		
Number of strain gage sensors 6	6	
(RoaDyn S/V)		
	'	
Pitch circle diameter sensor	250	
Pitch circle diameter sensor	262	
Pitch circle diameter sensor	286	
Pitch circle diameter sensor	340	

Included	Accessories
Chahau	

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•	Stator holder assembly
	consisting of:
	stator holder,
	angle clamp stator holder,
	tube cable guide for stator holder
	hexagon socket head cap screw
	spring pin,
	spring steel stator holder, inboard

• Stator bolt

5240A_000-561e-08.07

· Heat shield for stator housing

Optional Accessories

• Extension cable

Type/Art. No.

Z30520A

Z30255 Z30522A Z30623 V100.0024 V100.0085 Z30521 Z30382

Type

Z30514

Z30430A...

Page 2/2