

Out-Board Transmission System 2000

Туре 5248А...

for Digital Data Transmission

Module for transmitting supply voltage and measurement data via the out-board of the wheel. Additionally measures the wheel angle. The system is used with this out-board transmission unit during road load testing.

- Transmission to outside of wheel
- Quick and easy mounting
- Accurate measurement of angular position
- All-weather use
- Suitable for all RoaDyn® System 2000 measuring wheels

Description

The unit transmits the supply voltage for the electronic components to the sensor and the data from the RoaDyn measuring wheel to the on-board electronics Type 9891A... . The supply voltage for the wheel electronics unit and load cells is transferred by induction. An optical method is used to transmit the data. The rotation angle of the wheel is also measured by an encoder. Transmission continues with the wheel stationary.

Application

The out-board transmission Type 5248A... is used as standard for the measuring wheels RoaDyn V6HT respectively S6HT System 2000. It can be used also for all other RoaDyn System 2000 measuring wheels, when space for the in-board transmission on the vehicle hub is limited.

Technical Data

Optical (sender/receiver module)	
Mbit/s	2
	I /

Power Transmission

Principle	inductive



Fig. 1: Out-board transmission module on the RoaDyn® S625 System 2000 measuring wheel

Angular Measurement

Principle		Optical
	(bar cod	le/light pattern)
Number of counts per revolution		1 024
Angular resolution, static	0	0,35

Dimensions

Dimensions		
Inside diameter	mm	18
Outside diameter	mm	75/100
Height	mm	46
Housing material	Anoc	dized aluminium
Connecting cable material		PTFE
Weight	kg	0,45
	(without cable	and fixing arm)
Degree of protection		IP65
Temperature range	°C	-20 70
Supply voltage	V	5
On-board current consumption	mA	100
	(without 50 kHz pow	ver transmission)

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This information corresponds to the current state of knowledge. Kistler reserves the right to make technical changes. Liability for consequential damage resulting from the use of Kistler products is excluded.

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measure. analyze. innovate.

Type/Art. No.

Z31166

Z31170

Z30623

V100.0050

V100.0065

Mounting

The out-board transmission unit is mounted over the wheel electronics unit with a Type Z31166 adapter using 4 Phillips screws. A Binder 910 series screwdown connector ensures a good electrical connection to the RoaDyn measuring wheel, whereas the connection to the on-board electronics is made with a Lemo connector and a Type Z30340A... extension cable, which is available in various lengths. The Type Z31170 retaining ring can be used to mount fixing arm Type 9893A or rear Type Z311006Q... with two M5 screws.

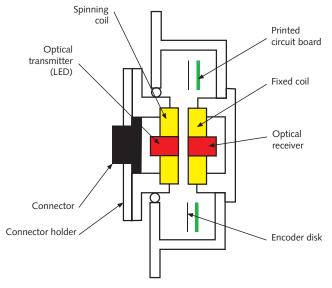


Fig 2: Section through rotary transmission unit

Included Accessories

- Adapter, wheel/angle encoder
- Retaining ring for fixing arm
- 4 Phillips screws, M5x6
- 4 Countersunk screws, M5x12
- 4 Spacer bolts, M4x30
- 4 Hexagon socket head cap screws, M4x12 V100.0066

Optional Accessories Type/Art. No.

Fixing arm 9893A
Fixing arm, truck, rear Z31006Q...
Extension cable Z30340A...

Ordering Key

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Out-Board Transmission System 2000)	Ī	
for digital Data Transmission for RoaDyn [®] S6xy System 2000	0	- I	
measuring wheels	Ŭ		
for RoaDyn [®] P6xy System 2000	1]	
measuring wheels			

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