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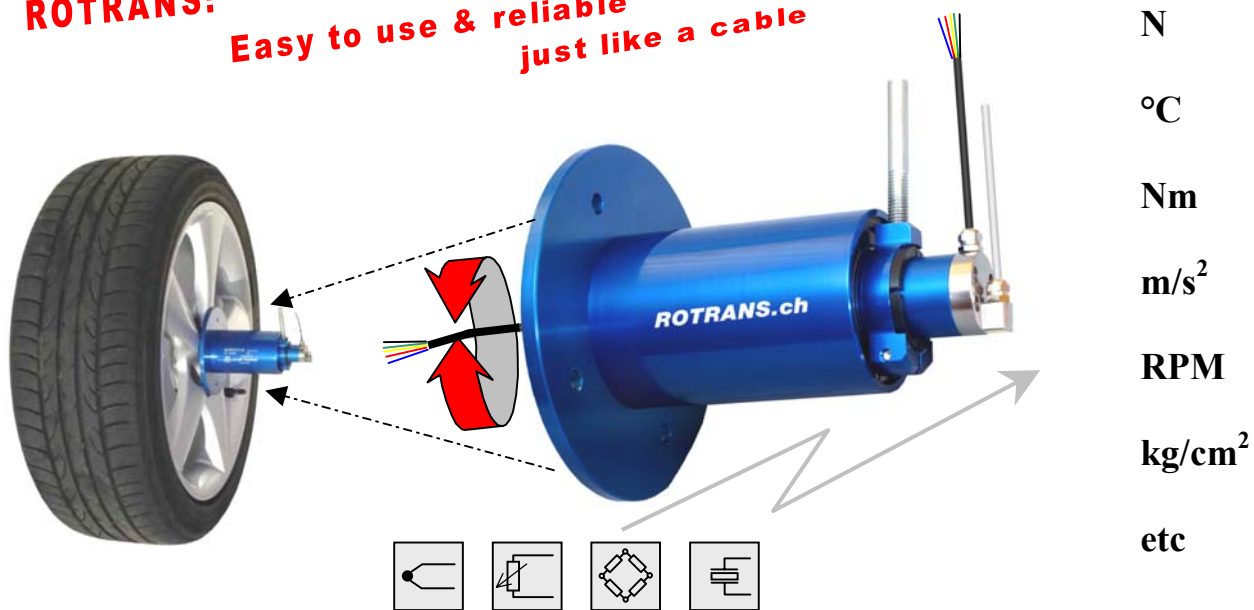
ROTRANS-W : Wheel Mounting

Rotary signal transmitters **SWISS MADE**

➔ R & D
➔ Labo

ROTRANS:

*Easy to use & reliable
just like a cable*



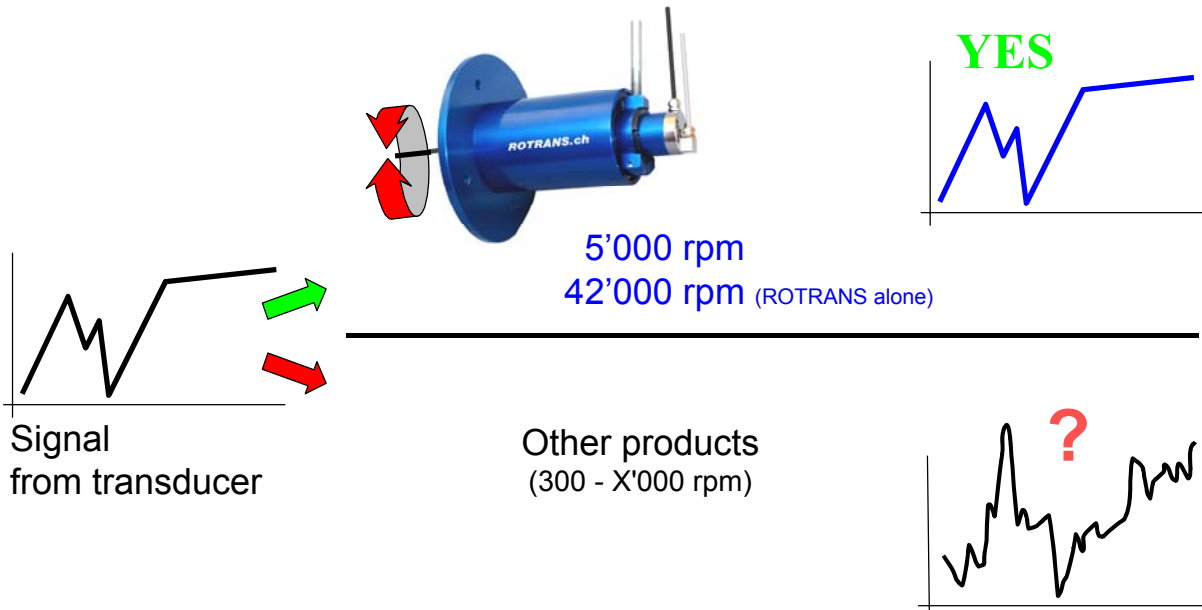
- $0 \div 5'000 \text{ min}^{-1}$
- $42'000 \text{ min}^{-1}$ (ROTRANS alone, separate datasheet)
- $\Delta R_{(0-20'000\text{rpm})} : 0,25 \text{ m}\Omega$
- 4, 8 or 12 channels (wires)
- Very low inertia
- Integrated speed pick-up (Optional)
- IP 51 (IP 68)
- Slipringless
- Arc-free

The Rotational Transmitter **ROTRANS** has been designed for transmitting signals from the inside of a rotating system to an external Signal Processing Device. In parallel **ROTRANS** is able to transmit supplying energy into the rotating system.

One of the most significant features of **ROTRANS** is the unique electric conductivity which allows reliable and distortionfree transmission of electric signals. Due to the sophisticated design the device can be operated with extremely low noises and wear-resistant. ROTRANS will not be affected by magnetic fields and is easy to operate. Even because of the low space consumption and high precision performance **ROTRANS** is the ideal partner for Research and Development.

Please let us know your specific needs. We are looking forward to discussing your application with you !

HIGH FIDELITY TRANSMISSION ?



Description

The rotary transmitters **ROTRANS** from **Jordil Technic** could be used to transmit excitation power to these devices in addition to transmitting the measuring signal from them.

ROTRANS help you to:

- Improve the products **performances**
- Improve the product **reliability**
- Reduce the production **costs**

The input and output cables are screened to be protected against electromagnetic disturbances.

The **ROTRANS-R-W** is use for measurement on wheel, disk brake, joint, ball bearing, drive shaft, tyre and other rotating items on wheel area.

Performances

It is with a concept using high-tech added components from high quality level that users can benefit from so interesting characteristics.

The speed range up to 42'000 min^{-1} , (**ROTRANS** alone) can reach higher speed according conditions.

On wheel measurement 5'000 min^{-1} cover all needs.

They are exceptionally well suited for the transmission of electrical signals from :

- Thermocouples
- Strain-gauges
- Oscillation pick-ups
- Accelerometers
- Pressure transducers
- Etc.

In addition to that, the **ROTRANS** as an **integrated speed pick-up**, as option.

Many plate are available in standard, and we realise special needs (\emptyset and number of holes).

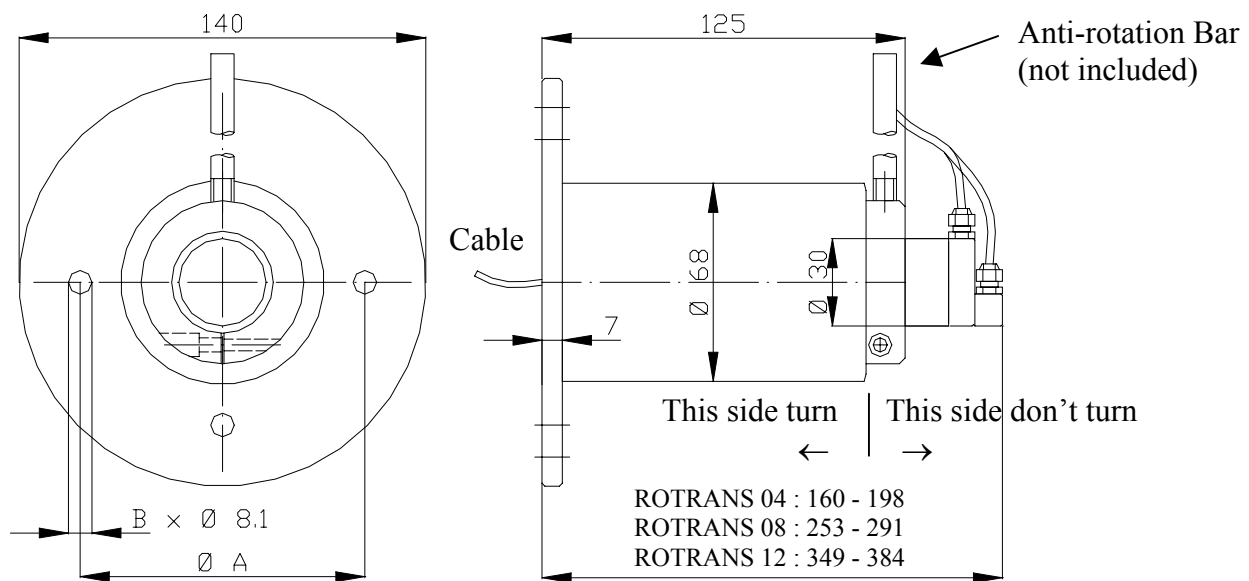
The use of **ROTRANS** is easy like a cable, without keyboard, without parameters and without power supply or batteries.

ROTRANS is an arc-free transmitter.

Like you see, **ROTRANS** is superior to all rotary transmitters using rings, slippers, brushes and similar devices.

The Continuous Product Improvement (CPI) by design, production, assembly and services is one of our main task.

Dimensions (mm)



Cables length :
 - Signal : 500 mm
 - Speed : 2'000 mm

Ø A [mm]	B: Number of holes
120	5
115	5
114,3	4/5
112	5
108	4/5
100	4/5
98	3/4/5

Technical data

Speed	5'000 min ⁻¹ , 42'000 min ⁻¹ (ROTRANS alone)
Number of channels	4, 8 or 12, other on request
Conductibility	Between 0 and 20'000 min ⁻¹ , for 2 cells in series, 0,5 mΩ resistance variation
Insulation resistance	More than 2 x 10 ⁸ Ω for two adjacent cells
Load voltage	75 V DC or 50 V AC between two cells or between cell and transmitter housing (more on request)
Load current	Maximum 0,3 A per cell, 0,4 A if only 1 cell (more on request)
IP Specification	IP 51, (available : IP 68)
Temperature range	- 25 to + 60 °C (for other Temperature, please contact us)
Connections (In/Out)	Cable for input and output : 0,5 m, screened
Cable temperature	< 70 °C; without external black insulation : 200 °C
Speed pick-up output (Optional)	4'200 Hz for 42'000 min ⁻¹ ; supply : 10 - 30 VDC, output : ~ 22 VDC, I ≤ 100 mA, 6 impulses / round

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Ordering information

Type	Description	PN
ROTRANS 04-R-W	4 Channels rotary signal transmitter with wheel mounting adapter	104-000-R-W0XX
ROTRANS 04-R-SM-W	4 Channels rotary signal transmitter, with integrated speed pick-up with wheel mounting adapter	104-000-R-SM-W0XX
ROTRANS 08-R-W	8 Channels rotary signal transmitter with wheel mounting adapter	108-000-R-W0XX
ROTRANS 08-R-SM-W	8 Channels rotary signal transmitter, with integrated speed pick-up with wheel mounting adapter	108-000-R-SM-W0XX
ROTRANS 12-R-W	12 Channels rotary signal transmitter with wheel mounting adapter	112-000-R-W0XX
ROTRANS 12-R-SM-W	12 Channels rotary signal transmitter, with integrated speed pick-up with wheel mounting adapter	112-000-R-SM-W0XX

XX = Position N°

Pos	ØA	B	Pos	ØA	B	Pos	ØA	B
01	98	3	05	100	5	09	114,3	4
02	98	4	06	108	4	10	114,3	5
03	98	5	07	108	5	11	115	5
04	100	4	08	112	5	12	120	5


ROTRANS 4, 8, 12	4, 8, 12 Channels, 42'000 rpm (separate datasheet)
ROTRANS 18, 24, 30	18, 24, 30 Channels, 25'000 rpm (separate datasheet)

Accessories

Coupling Flexible coupling (separate datasheet)

Servicing

Servicing Rotary signal transmitters. On offer
All types and all marks.

 Due to the continual development of our products, the specification may be modified without forewarning.
