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Brief description

For the FSG Rope Length Transmitter series SL30xx adaptors were constructed which allow the professional coupling to our RIPOS Absolute Rotation Transmitters.

Product version example

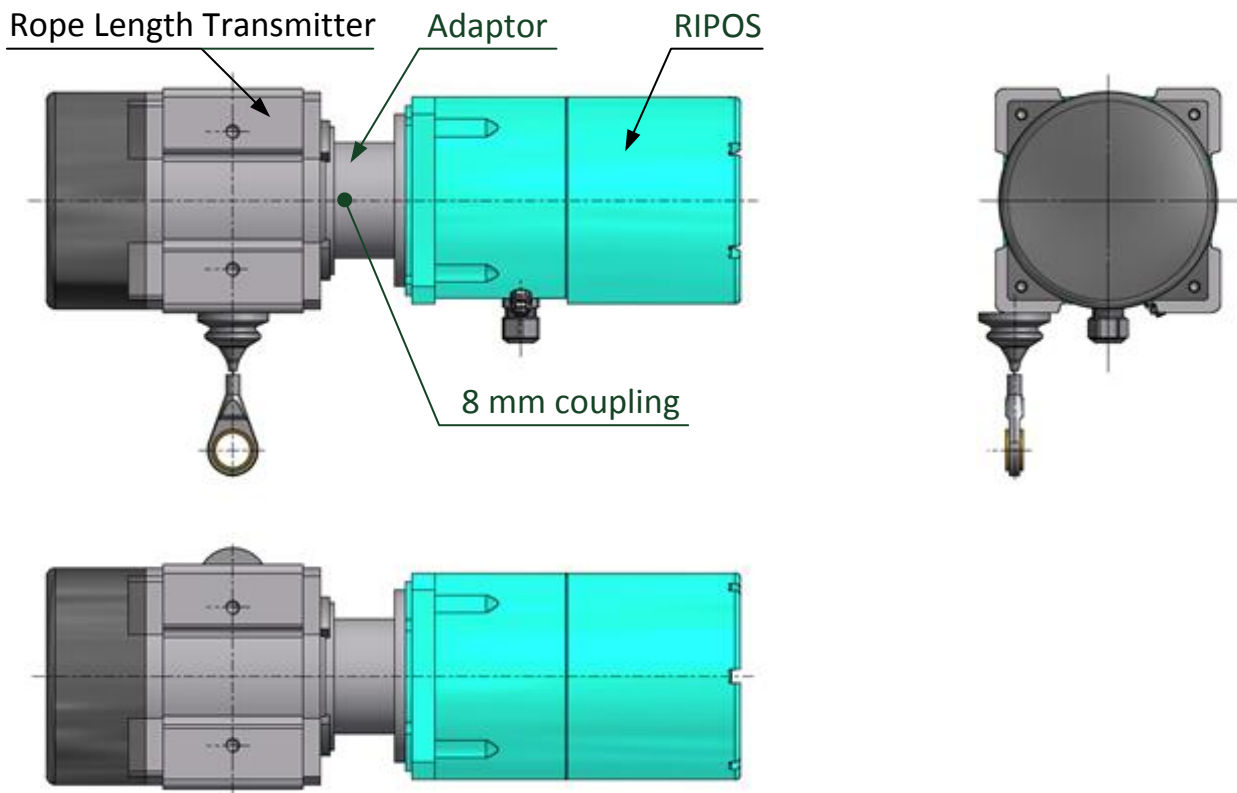


Figure 1: Product version example

Ordering information RIPOS

Refer to the corresponding data sheet:

Type	Article-text	Data sheet no.
MGRT	RIPOS smart Absolute Rotation Transmitter	24.210.0065906.00x.xx
MGRH.x	RIPOS hart Absolute Rotation Transmitter	24.210.0067125.00x.xx
MGlxP	Absolute Encoder Profibus-DP	24.210.0065905.00x.xx

Table 1: Ordering information RIPOS

Ordering information Adaptor

For SL type	Measuring length	Article-text	Article-no.
3002 3003	2 m 3 m	Adaptor compl. RIPOS/SL3002	0067111.001
3005 3010 3015 3020 3025 3030 3040 3050 3060	5 m 10 m 15 m 20 m 25 m 30 m 40 m 50 m 60 m	Adaptor compl. RIPOS/SL3005	0067112.001

Table 2: Ordering information Adaptor

Refer to the data sheet „RIPOS, adaptor for Rope Length Transmitter FSG“ (24.210.006711x.001.xx).

Ordering information Rope Length Transmitter

The Rope Length Transmitter is delivered with an 8 mm coupling.

Notice left / right version, rope outflow from view on the RIPOS:

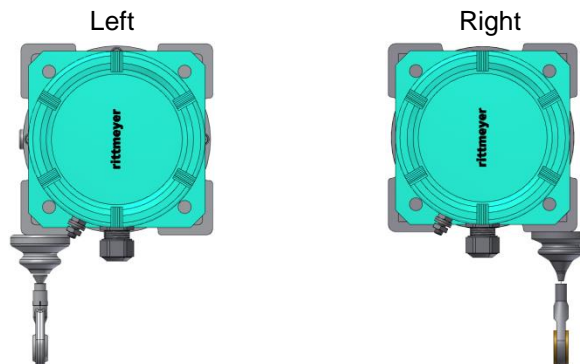


Figure 2: Product version left / right

SL type	Measuring length	Design size □	Article-no. / version	
			Left	Right
3002	2 m	80 mm	0067110.102	0067110.202
3003	3 m		---	0067110.203
3005	5 m	130 mm	0067110.105	---
3010	10 m		0067110.110	0067110.210
3015	15 m		0067110.115	0067110.215
3020	20 m		0067110.120	---
3025	25 m		0067110.125	---
3030	30 m		0067110.130	---
3040	40 m	190 mm	0067110.140	---
3050	50 m		0067110.150	---
3060	60 m		---	0067110.260

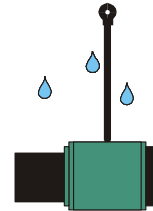
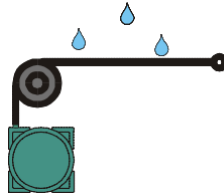
Table 3: Ordering information Rope Length Transmitter

For details refer to the original FSG data sheet "Rope Length Transmitter FSG Art_0067110_xxx_e.pdf", pages 8 and 9 (saved in SharePoint/DMS).

Notes on projecting

According to „Technical Information Cable Retractor“ (TR-E-TI-DGB-0053-00) / TR-Electronic.

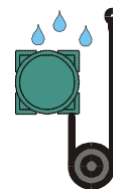
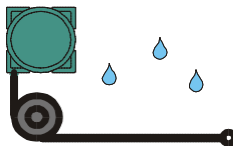
The cable length transmitter can work only reliably and exactly if he is used as agreed. At use in humid and dusty environment the mounting position is much important:



The cable insertion may be never assembled upward. Water can penetrate into the cable drum case along the measuring cable. Since the measuring cable doesn't offer any smooth surface by the twisting, a 100 % insulation isn't possible.

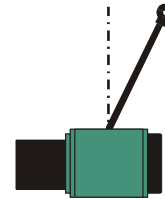


If there isn't a danger of ice formation at the measuring cable, a horizontal arrangement of the cable outlet is possible. If possible the cable outlet should be assembled downward.

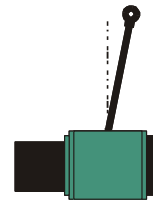


In case of danger of ice formation at the measuring cable the application of a pulley is always to use for breaking the ice. The cable outlet then should always be downward-pointing. This arrangement has always to be preferred where humidity or dust depositions can appear on the measuring cable.

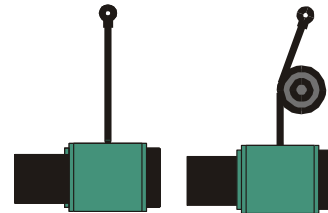
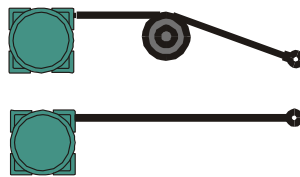
To reach a life time as long as possible of the measuring cable, the measuring cable may not be removed at an angle:






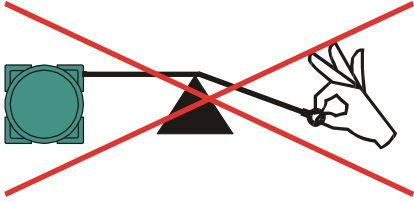
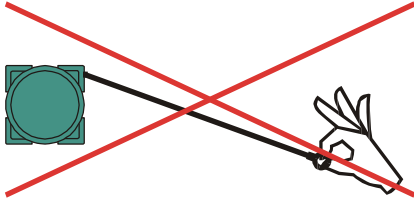
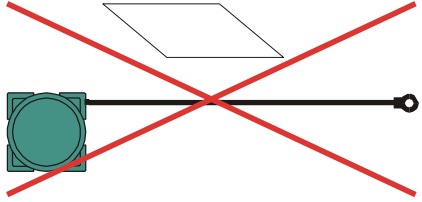
An unreeling angle of more than 3° will lead to troubles at the cable traction and to high wear at the cable insertion after short operating time.



An unreeling angle smaller than 3° is possible, but not recommended. The life time can be reduced.



A flat unreeling angle is optimal. For example this can be managed with a pulley.

To prevent damages to the measuring cable, the following handlings have to be avoided:		
	 <p>Never let off the measuring cable unhindered. Letting off the tense rope leads to destruction of the device. There is injury danger!</p>	 <p>Do not pull directly at the cable, break places can arise. Thereby the mechanism of the spring pull-back can be handicapped.</p>
 <p>Do not pull the measuring cable over edges; otherwise the cable strands are damaged.</p>	 <p>Do not pull out the measuring cable diagonal, the life time is reduced very much.</p>	 <p>Protect measuring cable from objects falling down. If necessary a cover is to be used.</p>

Notes on project process

- A complete measuring system always consists of:
Rope Length Transmitter + Adaptor + RIPOS
- For the assembly you must create a production order (FA) for our production dept.

Notes on parameterization

Note: Always observe the type plate!

SL type	Measuring length	Gear ratio
3002 3003	2 m 3 m	200 mm/turn \pm 0.05 %
3005 3010 3015 3020 3025 3030	5 m 10 m 15 m 20 m 25 m 30 m	334.1 mm/turn \pm 0.05 %
3040 3050 3060	40 m 50 m 60 m	491.5 mm/turn \pm 0.05 %

Table 4: Notes on parameterization