

Rope Length Transmitter

Tilt Angle Sensor

Cable Drum

Joystick

Pedal Actuated Transmitter

Angular Position Transducer









HIGH IP PROTECTION

Depending on their type, all cable drums have a casing protection between IP 65 and IP 67. In special version, e. g. cable drum without own driving shaft and bearing position, protection easily reaches protection IP68 or IP69K. These features are required in construction machinery or commercial vehicle sector, energy and water management facilities.



ROBUST CASING FOR ALL SECTORS

Salt-water proof alu casings of our cable drums usually provide a sufficient protection against mechanical damage and for outdoor applications. For special applications and requirements, however, e. g. on oil platforms, at supply ships or in chemical industry, cable drums in version with V4A stainless steel casings are available.





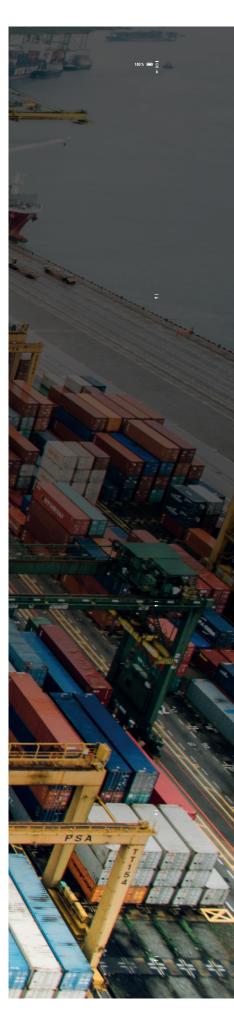
SAFETY

Almost every magnetic FSG cable drums are equipped with redundant sensors. Depending on their electrical circuit these sensors fulfil hence the requirements of functional safety according to guidelines EN ISO 13849 and EN 61508.



CUSTOMER-SPECIFIC SOLUTIONS

With regard to their electrical and mechanical characteristics all standard cable drums can – independent of quantities – be adapted to customer-specific requirements and applications. This often leads to new casing models or electrical interfaces.





System versions









Mechanical Data				
Series	WL 56	WL 020	WL 0025	WL 0042
Connection and drum casing	Alu-cast, coated	Alu-cast, coated	Alu-cast, coated	Alu-cast, coated
IP protection	IP 65	IP 65	IP 65	IP 65
Electrical connection	Series terminal strip (max. 2.5 mm²) or plug	Series terminal strip (max. 2.5 mm²) or plug	Series terminal strip (max. 2.5 mm²) or plug	Series terminal strip (max. 2.5 mm²) or plug
Weight	34 kg	20 kg	28 kg	32 kg
Spring motor				
Initial / final force	36 N / 70 N	30 N / 65 N	30 N / 90 N	30 N / 90 N
Speed	1 m/s	1 m/s	1 m/s	1 m/s
Measuring length				
up to max.	56 m	20 m	25 m	42 m
Measuring cable	12 x 0.5 mm ² , Type LiYCY	8 x 0.5 mm², Type LiYCY	9 x 0.5 mm ² + 5 x 0.25 mm ²	2 x 0.5 mm ² + 4 x 0.35 mm ²
Cable diameter	8 mm	7 mm	8 mm	6,5 mm
Circumference of drum	756 mm	753 mm	1187 mm	1182 mm
Cable winding	Multilayer (with layer winder)	Multilayer (optional: with layer winder)	Multilayer (optional: with layer winder)	Multilayer (optional: with layer winder)
Length accuracy	0.5 %	2 % (0.5 %)	3 % (0.5%)	3 % (0.5%)
Electrical Data				
Slip ring body, MS-hard gold plated	max. 12-poles	max. 8-poles	12-poles	6-poles
Circuit data	40 V / 2 A	40 V / 2 A	40 V / 2 A	40 V / 2 A
Length transmitter				
Resistance output	1, 2 or 5 kΩ	1, 2 or 5 kΩ	1, 2 or 5 kΩ	1, 2 or 5 kΩ
Output analogue	4 - 20 mA or 0 - 10 V DC	4 - 20 mA or 0 - 10 V DC	4 - 20 mA or 0 - 10 V DC	4 - 20 mA or 0 - 10 V DC
Output digital	CANopen	CANopen	CANopen	CANopen
Tilt transmitter				
Tilt angle	0 - 360°	0 - 360°	0 - 360°	0 - 360°
Angular accuracy	± 0.1°	± 0.1°	± 0.1°	± 0.1°
Resistance output	1, 2 or 5 kΩ	1, 2 or 5 kΩ	1, 2 or 5 kΩ	1, 2 or 5 kΩ
Output analogue	4 - 20 mA or 0 - 10 V DC	4 - 20 mA or 0 - 10 V DC	4 - 20 mA or 0 - 10 V DC	4 - 20 mA or 0 - 10 V DC
Output digital	CANopen	CANopen	CANopen	CANopen
General data				
Supply	18 - 33 V DC	18 - 33 V DC	18 - 33 V DC	18 - 33 V DC
Temperature range	-30°C up to +70°C	-30°C up to +70°C	-30°C up to +70°C	-30°C up to +70°C
Test voltage	500 V, 50 Hz, 1 min	500 V, 50 Hz, 1 min	500 V, 50 Hz, 1 min	500 V, 50 Hz, 1 min
EMC according to DIN	EN 61 000-6-2/3	EN 61 000-6-2/3	EN 61 000-6-2/3	EN 61 000-6-2/3
Number of cycles	up to 200,000	up to 200,000	up to 200,000	up to 200,000
	5937Z01		5964F01	

4 Cable drum 2019

System versions









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Mechanical Data				
Series	L015	L010	L015	L003
Connection and drum casing	Alu-cast, coated	Alu-cast, coated	Alu-cast, coated	Alu-cast, coated
IP protection	IP 65	IP 65	IP 65	IP 65
Electrical connection	Series terminal strip (max. 2.5 mm²) or plug			
Weight	32 kg	13 kg	15 kg	5 kg
Spring motor				
Initial / final force	80 N / 160 N	30 N / 55 N	30 N / 50 N	40 N / 65 N
Speed	1 m/s	1 m/s	1 m/s	0,2 m/s (Bremse)
Measuring length				
up to max.	15 m	10 m	15 m	3 m
Measuring cable	26 x 0.24 mm², Type LiYCY	5 x 0.34 mm², Type LiYCY	5 x 0.34 mm², Type LiYCY	2 x 0.1 mm ² + 2 x 0.15 mm ² , Type LiYCY
Cable diameter	9,5 mm	5,2 mm	5,2 mm	7 mm
Circumference of drum	800 mm	733 mm	733 mm	480 mm
Cable winding	Single layer	Single layer	Single layer	Single layer
Length accuracy	0.35 %	0.35 %	0.35 %	0.35 %
Electrical Data				
Slip ring body, MS-hard gold plated	26-poles	max. 5-poles	max. 5-poles	4-poles
Circuit data	40 V / 2 A	40 V / 2 A	40 V / 2 A	40 V / 10 A
Length transmitter				
Resistance output	1, 2 or 5 kΩ			
Output analogue	4 - 20 mA or 0 - 10 V DC	4 - 20 mA or 0 - 10 V DC	4 - 20 mA or 0 - 10 V DC	(4 - 20 mA or 0 - 10 V DC
Output digital	CANopen	CANopen	CANopen	CANopen
General data				
Supply	18 - 33 V DC			
Temperature range	-30°C up to +70°C			
Test voltage	500 V, 50 Hz, 1 min			
EMC according to DIN	EN 61 000-6-2 / 3	EN 61 000-6-2/3	EN 61 000-6-2 / 3	EN 61 000-6-2 / 3
Number of cycles	up to 200,000	up to 200,000	up to 200,000	up to 200,000
Article number	5941Z02	5907Z01	5907Z01	5965Z01



Berlin (Headquarters) Königs Wusterhausen/OT Kablow Königs Wusterhausen/OT Zernsdorf Rotterdam La Wantzenau Barcelona Freeport Benmore

BERLIN (HEADQUARTERS)

- founded in 1946
- total production area: 3500 m²
- number of employees: 170
- company management and sales
- design and development
- production and assembly

HEPPENHEIM

- founded in 1961
- total production area: 2700 m²
- number of employees: 40
- production and assembly





Cable drum 2019

Porsgrunn Göteborg Lempäälä locations in germany representations worldwide years in the market Dübendorf percent vertical range of manufacture Delhi

KÖNIGS WUSTERHAUSEN/OT KABLOW

- founded in 1992
- total production area: 5000 m²
- number of employees: 180
- production and assembly

KÖNIGS WUSTERHAUSEN/OT ZERNSDORF

- founded in 2017
- number of employees: 60
- total production area: 4300 m²









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