### Cable transducer

# Cable-pull with absolute or incremental encoder Up to 50 m measuring length



Cable transducer GCA15

### **Features**

- Ready-to-use mounted combination of cable mechanism and encoder
- Measuring length 2.4...50 m
- Broad selection of absolute and incremental standard encoders
- High linearity up to ±0.01 % of the measuring range
- Cable made of highly flexible stainless steel cores
- High service life up to 5 million strokes

Technical data - cable-p	ull				
Materials	Housing: Aluminium, plastic PBT GF 20 (GCI2 / GCA2) Cable: Stainless steel, polyamide-coated				
Operating temperature	-20+80 °C				
Protection per IEC60529	IP 50 (cable-pull)				
Cable mounting	2.4 m: with snap hook 35 m: with thread or eyelet 550 m: with eyelet				
Service life	2.4 m: approx. 1 million strokes 3 m: approx. 5 million strokes 550 m: approx. 1 million strokes				
Linearity	02.4 m: ±0.05 % (±0.01 % on request) 37.5 m: ±0.02 % 1050 m: ±0.01 %				
Product family	GCI: Cable transducer with incremental encoder GCA: Cable transducer with absolute encoder				

Product family	Cable length	Weigth	Distance/rev.	Cable acceleration	Pull-out force	Pull-in force	Cable-ø
GCI2 / GCA2	2.4 m	0.2 kg	150.75 mm	Max. 5 m/s <sup>2</sup>	Max. 7 N	Min. 1 N	0.45 mm
GCI4 / GCA4	3 m	1.1 kg	260.09 mm	Max. 70 m/s <sup>2</sup>	Max. 11 N	Min. 3 N	0.8 mm
GCI15 / GCA15	5 m	1.4 kg	315.07 mm	Max. 50 m/s <sup>2</sup>	Max. 16 N	Min. 4 N	1.0 mm
GCI15 / GCA15	7.5 m	1.7 kg	315.07 mm	Max. 60 m/s <sup>2</sup>	Max. 24 N	Min. 8 N	1.0 mm
GCI15 / GCA15	10 m	2.5 kg	315.07 mm	Max. 30 m/s <sup>2</sup>	Max. 21 N	Min. 8 N	1.0 mm
GCI15 / GCA15	15 m	2.7 kg	315.07 mm	Max. 30 m/s <sup>2</sup>	Max. 25 N	Min. 8 N	1.0 mm
GCI50 / GCA50	30 m	9.5 kg	500.00 mm	Max. 20 m/s <sup>2</sup>	Max. 22 N	Min. 12 N	0.8 mm
GCI50 / GCA50	40 m	10.5 kg	500.00 mm	Max. 20 m/s <sup>2</sup>	Max. 22 N	Min. 11 N	0.8 mm
GCI50 / GCA50	50 m	11 kg	500.00 mm	Max. 20 m/s <sup>2</sup>	Max. 24 N	Min. 11 N	0.8 mm

Technical encoder data: See encoder product sheet.



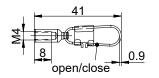
### Ordering part number

The respective ordering part number is defined after receipt of order (combination of encoder and cable-pull).

Example: GCA15-GM401.E26 = cable-pull with 15 m cable length combined with absolute encoder GM401.120A102 (SSI, gray code, 12x12 bit, 10...30 VDC).

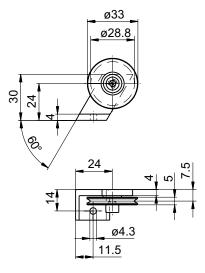
### Accessories

Z 119.060 Snap hook for cable-pulls of 3 m length

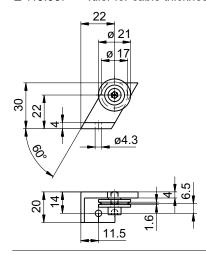




Z 119.065 Idler for cable thickness 0.8...1 mm



Z 119.067 Idler for cable thickness max. 0.5 mm





### The appropriate encoder for system solutions

All current encoder designs with 58 mm housing offered in our wide range on absolute and incremental encoders are compatible to the cable-pull of your choice.

### Incremental encoders (GCI)

- Impulse numbers up to 65.536 pulses/turn
- Interfaces: HTL/TTL

### Absolute encoders (GCA)

- Resolution max. 31 bit
- Programmable (e.g.: rotation direction)

These absolute encoders can be varied with all current fieldbus interfaces:

















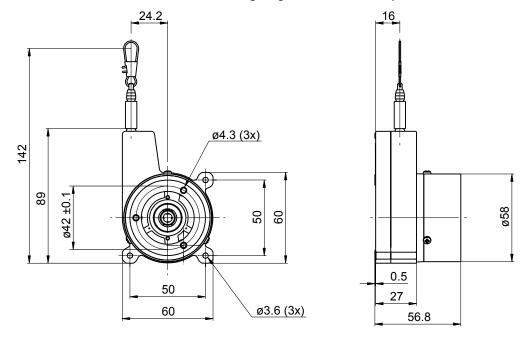
# 10.05.2022 Subject to modification in technic and design. Errors and omissions excepted.

### **Cable transducer**

# Cable-pull with absolute or incremental encoder Up to 50 m measuring length

### **Dimensions**

GCI2/GCA2 – without encoder, measuring length 2.4 m – with snap hook



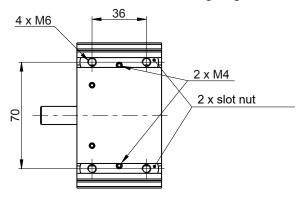
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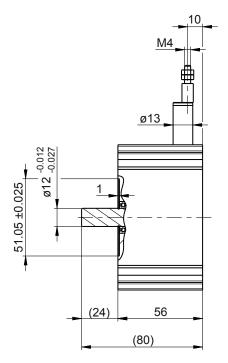
### **Cable transducer**

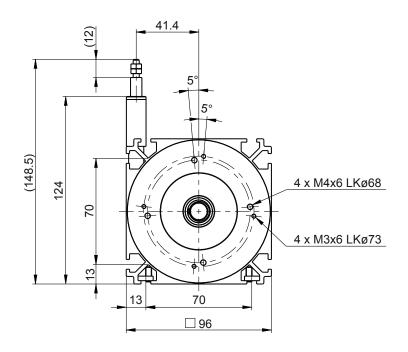
# Cable-pull with absolute or incremental encoder Up to 50 m measuring length

### **Dimensions**

### GCI4/GCA4 – without encoder, measuring length 3 m – with thread





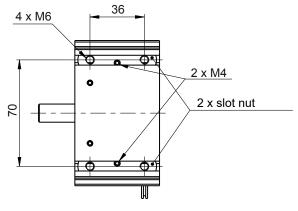


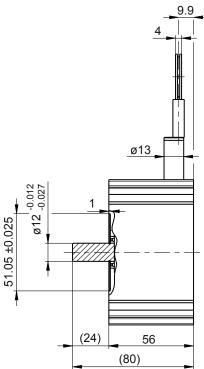
### **Cable transducer**

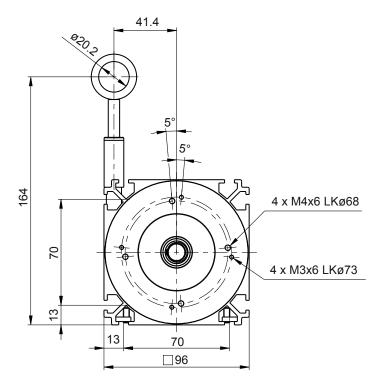
# Cable-pull with absolute or incremental encoder Up to 50 m measuring length

### **Dimensions**

### GCI4/GCA4 - without encoder, measuring length 3 m - with eyelet





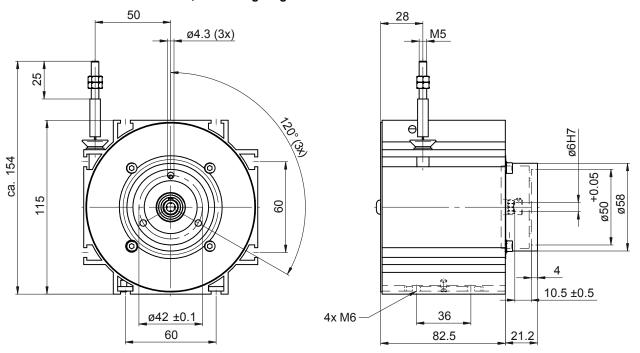


### Cable transducer

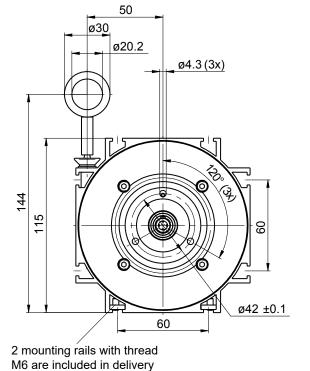
## Cable-pull with absolute or incremental encoder Up to 50 m measuring length

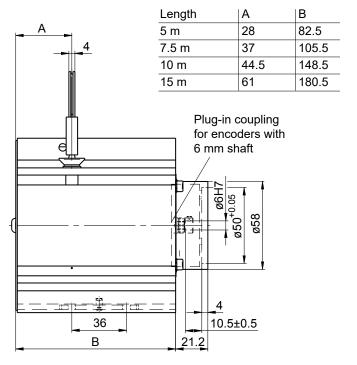
### **Dimensions**

### GCI15/GCA15 - without encoder, measuring length 5 m - with thread



### GCI15/GCA15 – without encoder, measuring length 5, 7.5, 10 or 15 m – with eyelet





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### Cable transducer

# Cable-pull with absolute or incremental encoder Up to 50 m measuring length

### **Dimensions**

GCI50/GCA50 - without encoder, measuring length 30, 40 or 50 m - with eyelet

