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...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 (GCl2 / 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 2 m: with thread 35 m: with thread or eyelet 550 m: with eyelet				
Linearity	02.4 m: ±0.05 % (±0.01 % on request) 2 m: ±0.02 % 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 ²	Max. 7 N	Min. 1 N	0.45 mm
GCI4 / GCA4	2 m	0.9 kg	164.00 mm	Max. 80 m/s ²	Max. 11 N	Min. 3 N	0.8 mm
GCI4 / GCA4	3 m	1.1 kg	260.09 mm	Max. 70 m/s ²	Max. 11 N	Min. 3 N	0.8 mm
GCI15 / GCA15	5 m	1.4 kg	315.07 mm	Max. 50 m/s ²	Max. 16 N	Min. 4 N	1.0 mm
GCI15 / GCA15	7.5 m	1.7 kg	315.07 mm	Max. 60 m/s ²	Max. 24 N	Min. 8 N	1.0 mm
GCI15 / GCA15	10 m	2.5 kg	315.07 mm	Max. 30 m/s ²	Max. 21 N	Min. 8 N	1.0 mm
GCI15 / GCA15	15 m	2.7 kg	315.07 mm	Max. 30 m/s ²	Max. 25 N	Min. 8 N	1.0 mm
GCI50 / GCA50	30 m	9.5 kg	500.00 mm	Max. 20 m/s ²	Max. 22 N	Min. 12 N	0.8 mm
GCI50 / GCA50	40 m	10.5 kg	500.00 mm	Max. 20 m/s ²	Max. 22 N	Min. 11 N	0.8 mm
GCI50 / GCA50	50 m	11 kg	500.00 mm	Max. 20 m/s ²	Max. 24 N	Min. 11 N	0.8 mm

Technical encoder data: See encoder product sheet.



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

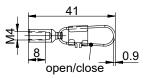
Ordering part number

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).

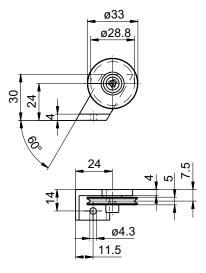
Accessories

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

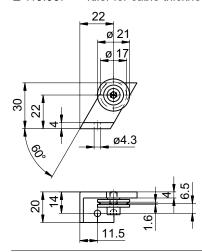




Z 119.065 Idler for cable thickness 0.8...1 mm



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.

GCA2/GCA15/GCA50: for encoders with synchro flange GCA4: for encoders with blind or through hollow shaft Please observe the quick guide for mounting the encoder.

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:

















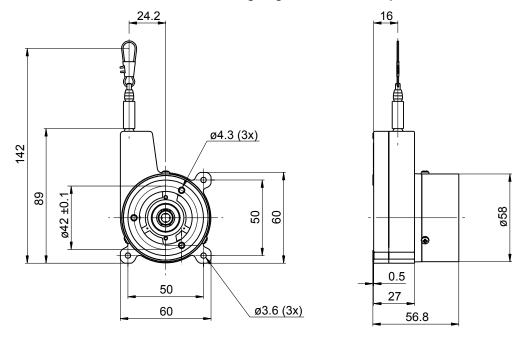
21.11.2023 Subject to modification in technic and design. Errors and omissions excepted.

Cable transducer

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

Dimensions

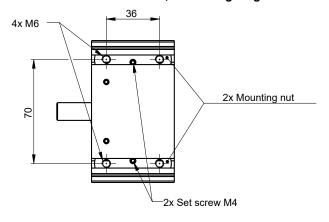
GCI2/GCA2 – without encoder, measuring length 2.4 m – with snap hook

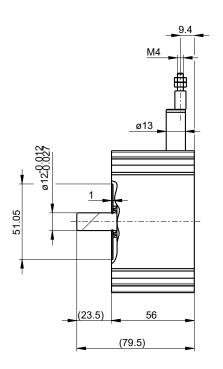


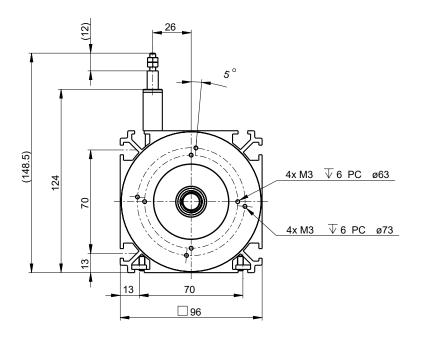
Cable-pull with absolute or incremental encoder Up to 50 m measuring length

Dimensions

GCI4/GCA4 – without encoder, measuring length 2 m – with thread



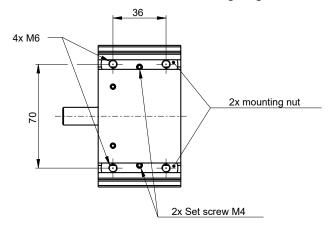


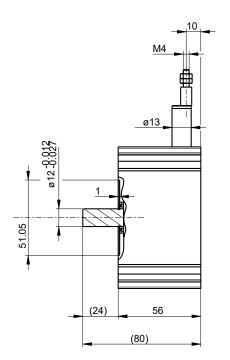


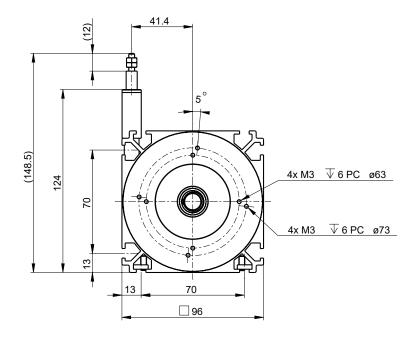
Cable-pull with absolute or incremental encoder Up to 50 m measuring length

Dimensions

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







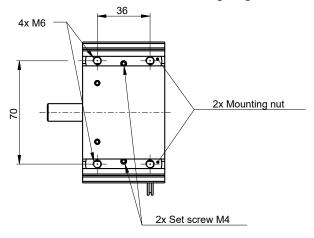
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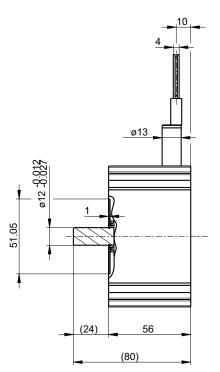
Cable transducer

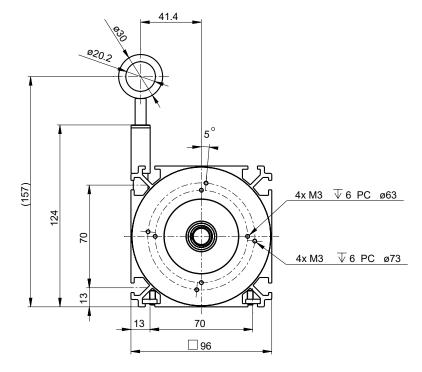
Cable-pull with absolute or incremental encoder Up to 50 m measuring length

Dimensions

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



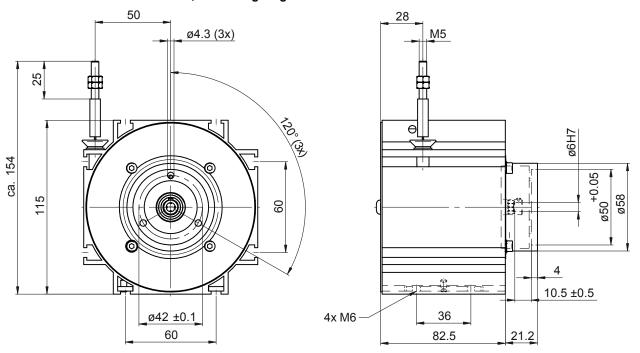




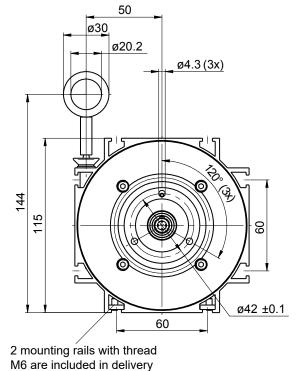
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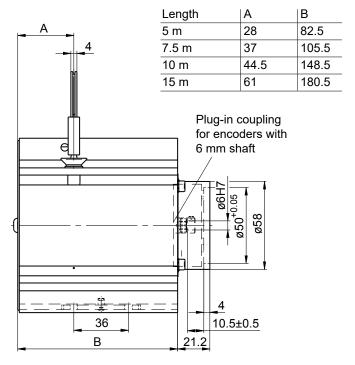
Dimensions

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





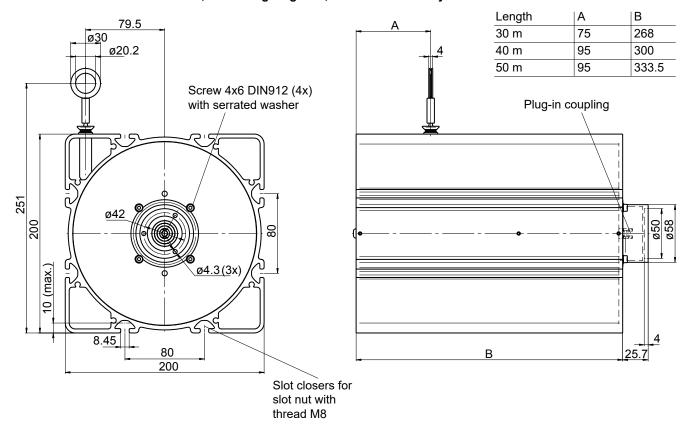
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Cable transducer

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



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