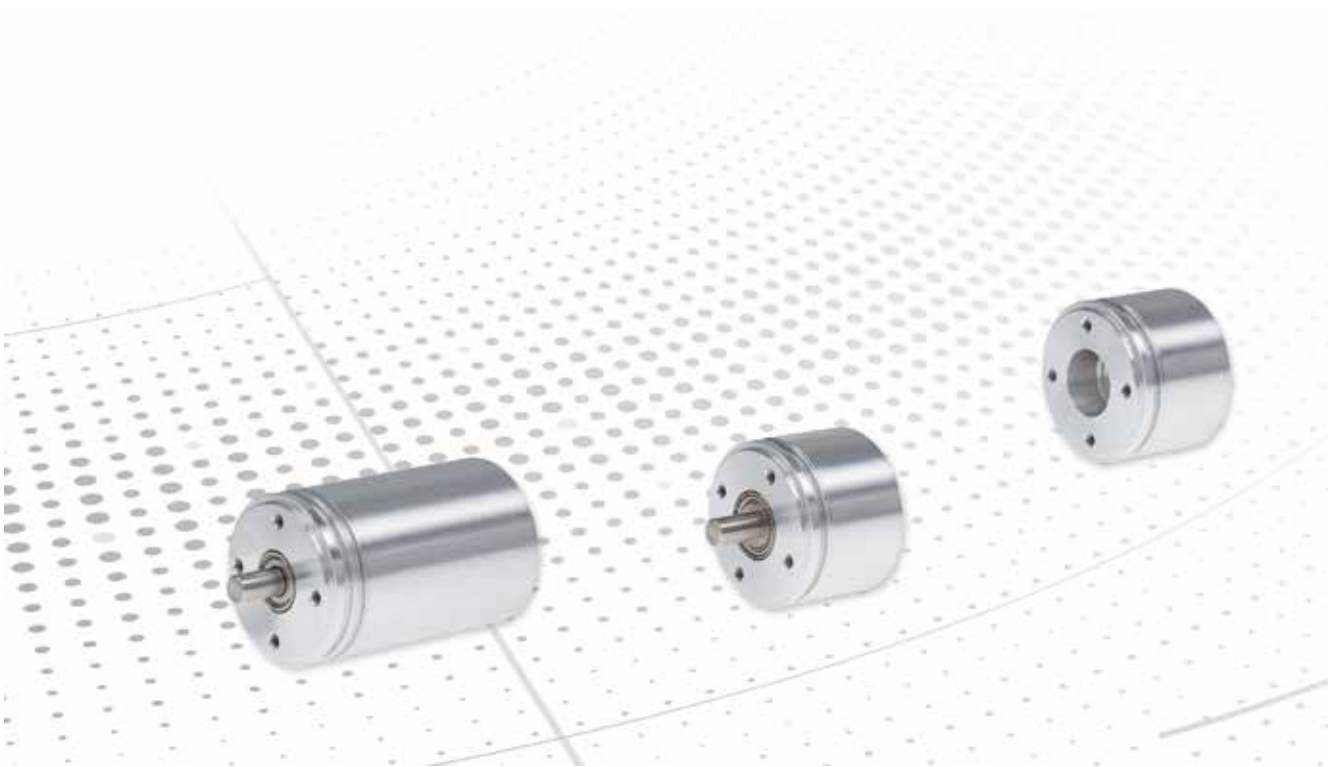


Absolute Rotary Encoders

Family C__36



Rotary Encoder - Family C__36 - Housing 36 mm



Compact absolute rotary encoder family - also washdown safe (IP69K)

A new design size is taking the market by storm: with a diameter of 36 mm, advanced encoder technology is moving in where there is no room for typical industrial design sizes. And there is absolutely no need for the 36 mm series of encoders from TR to hide behind the bigger design sizes. The series is made up of incremental, single and real multi-turn rotary encoders, some with single-scan, some with double-scan functionality, and implemented according to the redundancy concept from the gears to the scan, power supply

and interface. Compact encoders C__36 are available with magnetic and optic detection with up to 18 bit resolution per revolution.

Absolute encoder with completely encapsulated electronics IM_36, CM_36S, CD_36S

- _ completely encapsulated single-turn encoder
- _ extremely robust and extremely tight (IP 69 K)
- _ for areas where the temperature fluctuates (thawing)
- _ compact design, only 36 mm in diameter
- _ professional solution for your outdoor applications
- _ optional double scanning for redundancy (2 x SSI)
- _ optionally as incremental rotary encoder
- _ optional separate bearing (completely free from wear and tear)
- _ magnetic scanning

Area of application

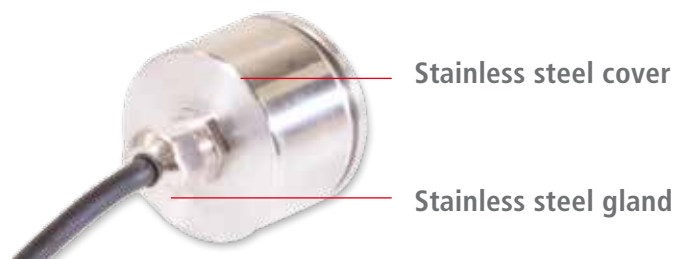
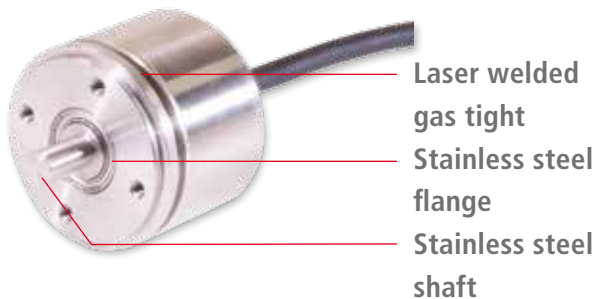
This standard applies to the IP protection classes for electrical fittings in road vehicles.



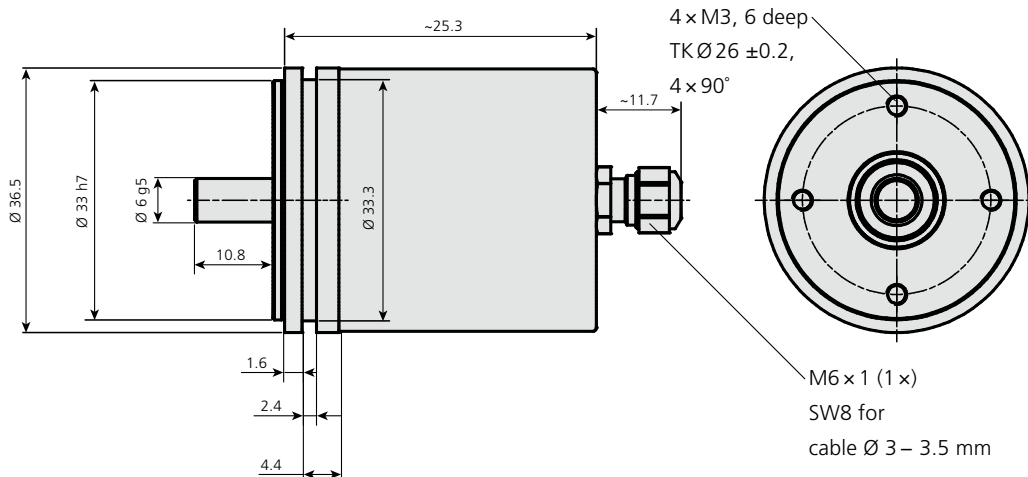
Purpose of application – the following has been defined

Name and definition of IP protection classes and degrees through the housing around the electrical fittings in road vehicles to protect the electrical fittings inside the housing against the ingress of water and foreign bodies. There is also a regulation in place for the protection of people.

stainless steel-housing (IP 69 K)



Available for incremental and absolute single-turn variants



Assembly of a magnet holder

For bearing free __F36


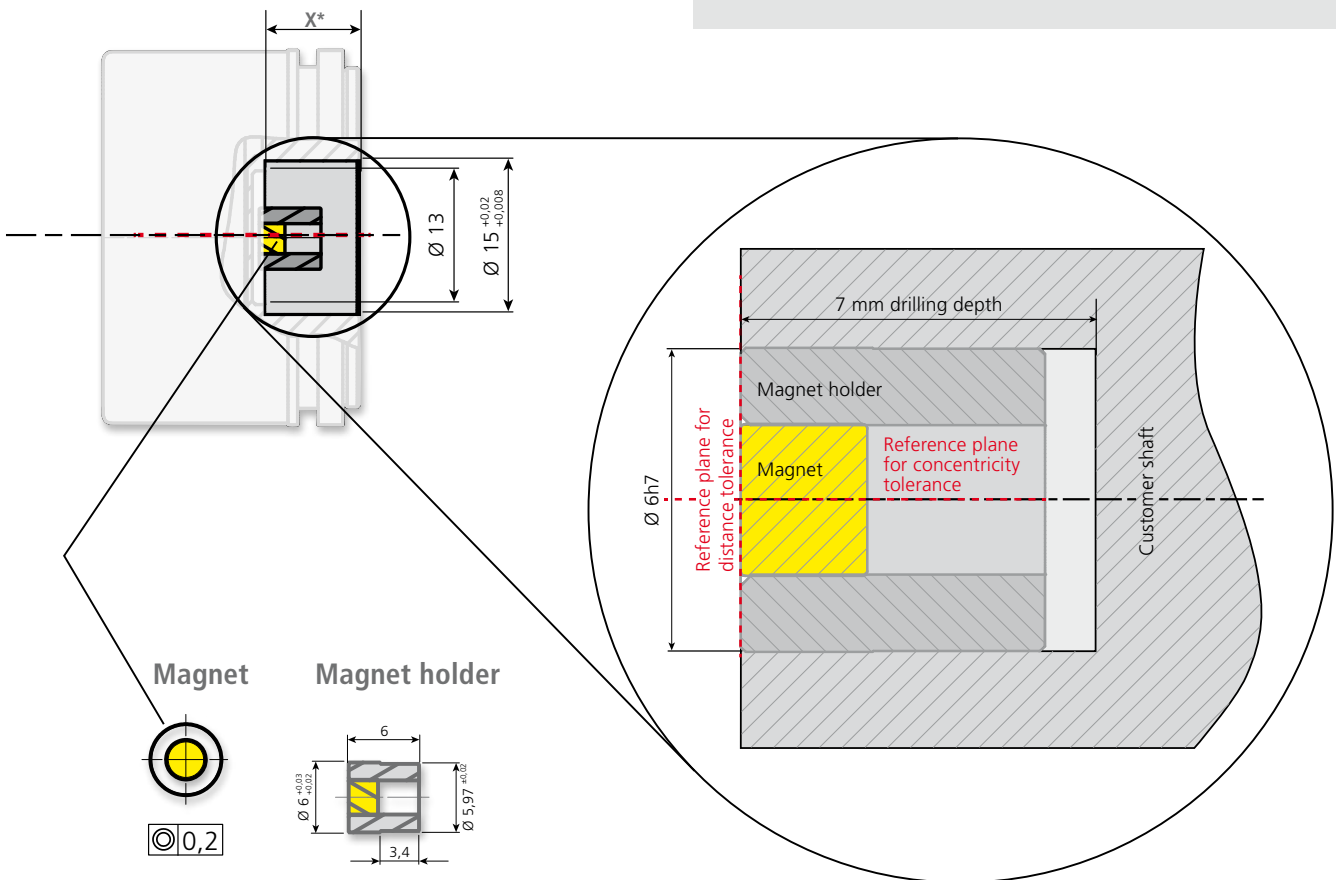
TR-Electronic constructs and manufactures the magnet holder custom fit for your application and delivers it with a built-in magnet. The example shows a magnet holder pressed into the face-sided drilling 6h7 (7 mm deep) of the shaft

(order no. 49150092). The magnet holder is not part of delivery. Please order this item separately. Magnet holders in other sizes will be designed and delivered according to customers' specifications.

Exemplary illustration for a face-sided drilling 6h7 of 7 mm depth at the IMF 36



X* depends on device. See all information at TR-Web
www.tr-electronic.com/s/S006824

To get information faster, just scan the QR code.

This type:
 Order no. 49150092


Magnet detection (M)

Product	CMV36-S	CMV36-M	CMS36-M
			
Detection	Magnet detection (M)	Magnet detection (M)	Magnet detection (M)
Single / Multi	(S) Single	(M) Multi	(M) Multi
Supply	11...27 VDC	11...27 VDC	11...27 VDC
Steps per turn	32, 40, 64, 80, 100, 128, 160, 200, 256, 320, 400, 500, 512, 1,000, 1,024, 1,600, 2,000, 2,048, 4,096, 8,192*	32, 40, 64, 80, 100, 128, 160, 200, 256, 320, 400, 500, 512, 1,000, 1,024, 1,600, 2,000, 2,048, 4,096, 8,192*	32, 40, 64, 80, 100, 128, 160, 200, 256, 320, 400, 500, 512, 1,000, 1,024, 1,600, 2,000, 2,048, 4,096, 8,192*
Number of turns	1	4,096 (Option: 16,777,216)	4,096 (Option: 16,777,216)
Shaft diameters available	6mm	6mm	8mm blind shaft
Connectors	Cable gland axial	Cable gland axial, M12 axial (DRIVE CLiQ)	Cable gland axial, M12 axial (DRIVE CLiQ)
Ambient temperature	-25...+70°C	-25...+70°C	-25...+70°C
Protection class	IP65 (option IP69k)	IP54 (option IP65)	IP54 (option IP65)
Interface	SSI ASI Analog CAN	SSI  ASI CAN	SSI  ASI CAN
Option, additional interfaces (on request)	INC	INC	INC
Weblink	www.tr-electronic.com/s/S007174	www.tr-electronic.com/s/S007175	www.tr-electronic.com/s/S007176
QR-Code			

*Factory set







Can't find the right variant? Please contact us (info@tr-electronic.de)

Magnet detection (M)

Product	CMF36-S	CDV36-S	CDV36-M	
				
Detection	Magnet detection (M)	Magnet detection (M)	Magnet detection (M)	
Single / Multi	(S) Single	(S) Single	(M) Multi	
Supply	11...27 VDC	11...27 VDC	11...27 VDC	
Steps per turn	32, 40, 64, 80, 100, 128, 160, 200, 256, 320, 400, 500, 512, 1,000, 1,024, 1,600, 2,000, 2,048, 4,096, 8,192*	32, 40, 64, 80, 100, 128, 160, 200, 256, 320, 400, 500, 512, 1,000, 1,024, 1,600, 2,000, 2,048, 4,096, 8,192*	32, 40, 64, 80, 100, 128, 160, 200, 256, 320, 400, 500, 512, 1,000, 1,024, 1,600, 2,000, 2,048, 4,096, 8,192*	
Number of turns	1	1	4.096	
Shaft diameters available	See drawings section	6mm	6mm	
Connectors	Cable gland axial	2x cable gland axial	2x cable gland axial	
Ambient temperature	-25...+70°C	-25...+70°C	-25...+70°C	
Protection class	IP65 (option IP69k)	IP65 (option IP69k)	IP54 (option IP65)	
Interface	SSI ASI Analog CAN	SSI	SSI	
Option, additional interfaces (on request)	INC	SSI	SSI	
Weblink	www.tr-electronic.com/s/S007177	www.tr-electronic.com/s/S007178	www.tr-electronic.com/s/S007179	
QR-Code				

*Factory set

Magnet detection (M)
 Optical 15 bit (E)
 Optical 18 bit (O)

CDF36-S	CEV36-M	COV36-M
		
Magnet detection (M)	Optical 15 bit (E)	Optical 18 bit (O)
(S) Single	(M) Multi	(M) Multi
11...27 VDC	5...27 VDC	5...27 VDC
32, 40, 64, 80, 100, 128, 160, 200, 256, 320, 400, 500, 512, 1,000, 1,024, 1,600, 2,000, 2,048, 4,096, 8,192*	1.. .32,768*	1...262,144*
1	65.536	65.536
See drawings section	6mm	6mm
2x cable gland axial	M12 axial	M12 axial
-25...+70°C	-25...+70°C	-25...+70°C
IP65 (option IP69k)	IP54 (option IP65)	IP54 (option IP65)
SSI	SSI	SSI
SSI		
www.tr-electronic.com/s/S007180	www.tr-electronic.com/s/S007293	www.tr-electronic.com/s/S007294
		

*Factory set

Can't find the right variant? Please contact us (info@tr-electronic.de)

Suggested Products

Order code	Steps per turn	Turns	Shaft / Flange	Connector position	Cable length	Remark
CMV36-SSI (M) Magnet detection, solid shaft, SSI						
CMV36S-00005	4096	1	6GL/10,8 ZB33	Cable gland	1,000 m	
CMV36M-00011	4096	4096	6GL/10,8	Cable gland	1,000 m	
CMV36-A (M) Magnet detection, solid shaft, analogue U+I						
CMV36S-00008	4096	1	6GL/10,8 ZB33	Cable gland	1,000 m	
CMV36-DQ (M) Magnet detection, solid shaft, DRIVECLiQ						
CMV36M-00010	4096	4096	6GL/10,8	1x M12 8pin		
CMF36-SSI (M) Magnet detection, bearing free, SSI						
CMF36S-00002	4096	1	See chapter drawings	Cable gland	1,000 m	
CDV36-SSI (D) Double detection, solid shaft, double SSI						
CDV36S-00002	4096	1	6GL/10,8 ZB33	2x cable gland	1,000 m	
CDV36M-00002	4096	4096	6GL/10,8 ZB33	2x cable gland	1,000 m	
CDF36-SSI (D) Double detection, bearing free, double SSI						
CDF36S-00002	4096	1	See chapter drawings	2x cable gland	1,000 m	

Further product information

1. Enter order code into ...



2. Searchfield (top right) on www.tr-electronic.com



3. Choose desired information

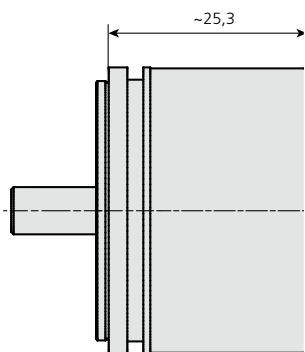


We will help you to select the most suitable products from the complete TR range. Please contact us (info@tr-electronic.de).

Dimensional Drawings

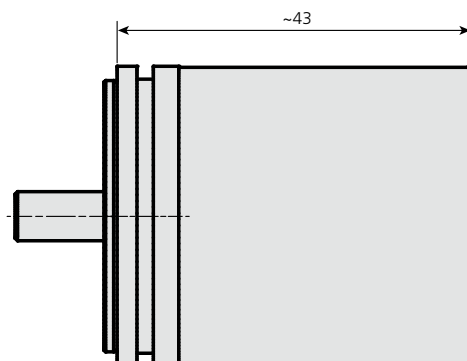
Singleturn

Length of housing



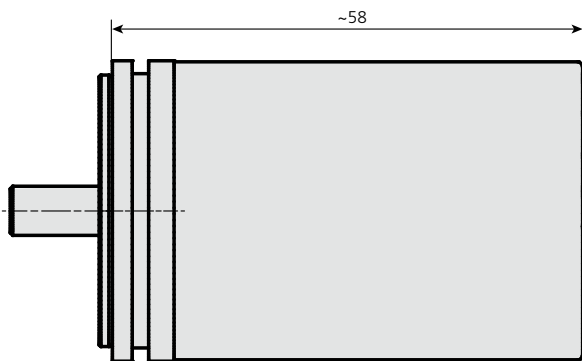
Multiturn

Length of housing



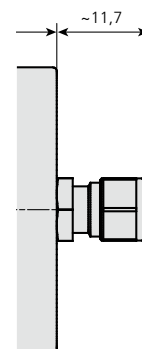
Multiturn DRIVE CLiQ

Length of housing



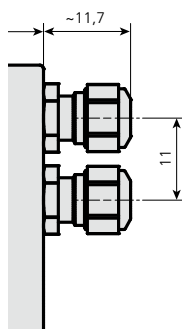
SSI, CANopen, analogue

1 cable gland



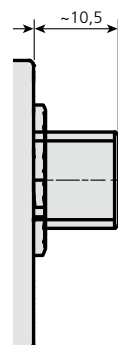
2xSSI, 2x analogue

2 cable glands



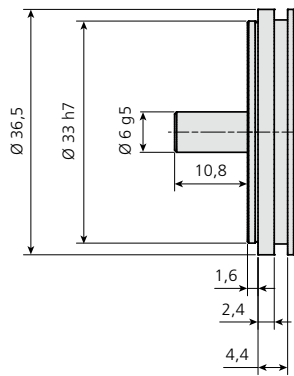
DRIVE CLiQ, all CE_36, CO_36

1 x M12

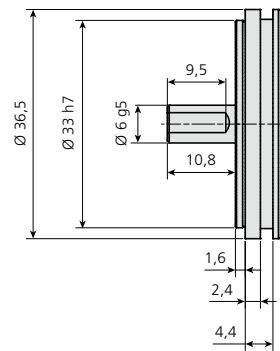


Flanges

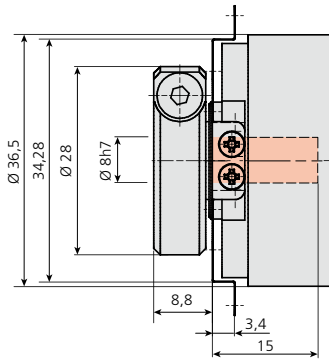
Solid shaft
6GL10,8 (round shaft)



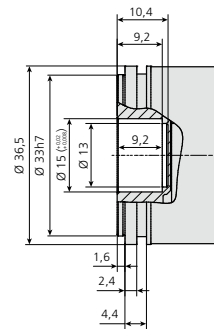
Solid shaft
6FL10,8 (shaft with flat)



Blind shaft
8h7

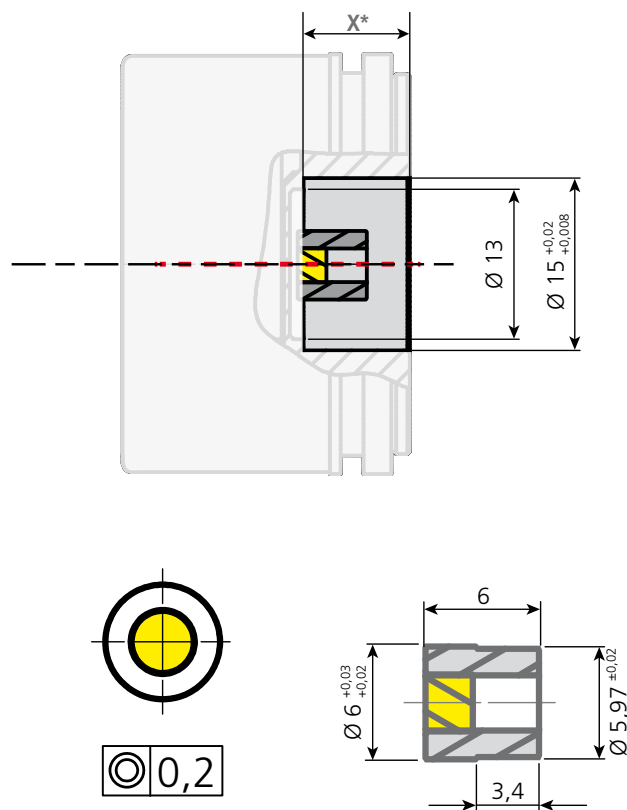


Bearing free

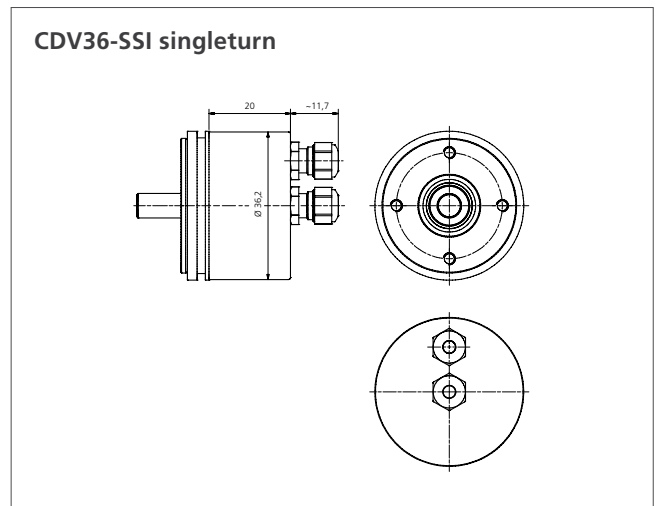
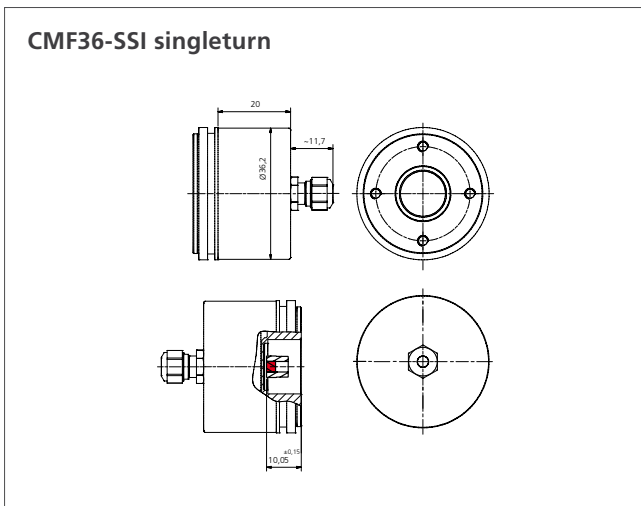
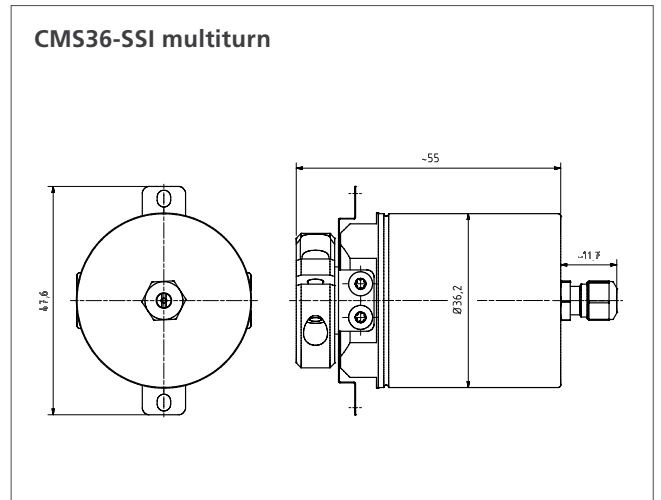
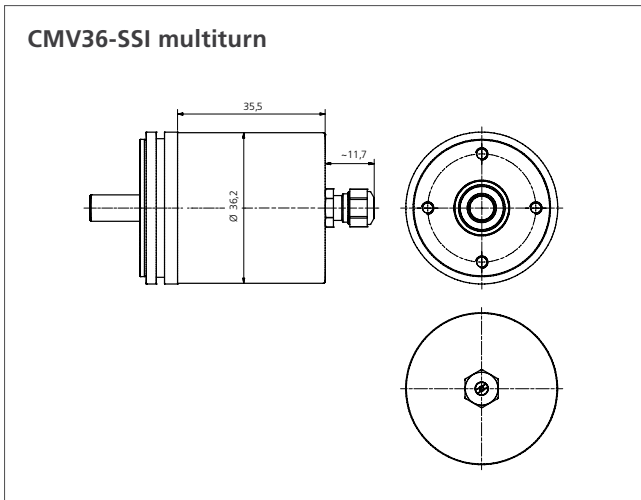
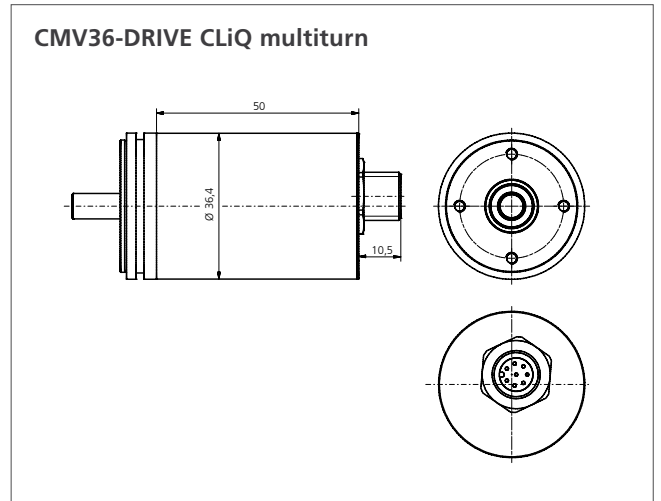
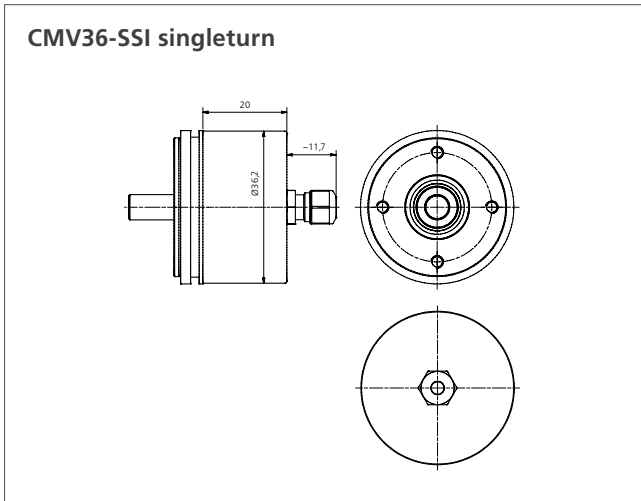


Assembly Examples

-- F36 singleturn

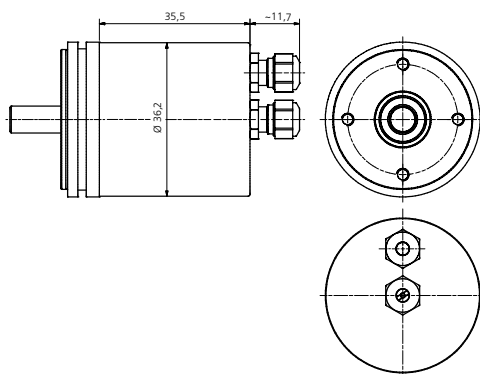


Samples

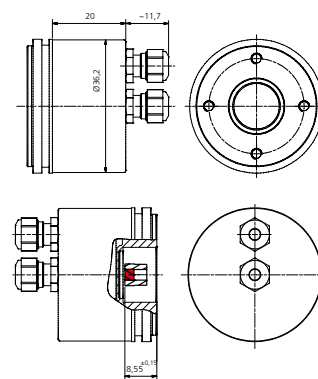


Samples

CDV36-SSI multiturn



CDF36-SSI singleturn



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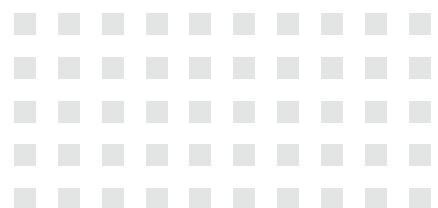
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68-105-105 - TR-V-PR-GB-0003

Subject to technology and design modifications.

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