Absolute Rotary Encoders
Family C___36
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 × 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.

stainless steel-housing (IP 69 K)

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.

Available for incremental and absolute single-turn variants

Laser welded
gas tight
Stainless steel
flange
Stainless steel
shaft

Stainless steel cover
Stainless steel gland

4 × M3, 6 deep
TK ø26 ±0.2,
4 × 90°

-M6 x 1 (1 x)
SW8 for
cable ø 3 – 3.5 mm
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)

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<tr>
<th>Product</th>
<th>CMV36-S</th>
<th>CMV36-M</th>
<th>CMS36-M</th>
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<td>Detection</td>
<td>Magnet detection (M)</td>
<td>Magnet detection (M)</td>
<td>Magnet detection (M)</td>
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<tr>
<td>Single / Multi</td>
<td>(S) Single</td>
<td>(M) Multi</td>
<td>(M) Multi</td>
</tr>
<tr>
<td>Supply</td>
<td>11…27 VDC</td>
<td>11…27 VDC</td>
<td>11…27 VDC</td>
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<tr>
<td>Steps per turn</td>
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<td>Cable gland axial</td>
<td>Cable gland axial, M12 axial (DRIVE CLiQ)</td>
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*Factory set
## Absolute Rotary Encoders - C__36

### Magnet detection (M)

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*Factory set*
## Magnet detection (M)  
Optical 15 bit (E)  
Optical 18 bit (O)

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<td>1...262,144*</td>
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<td>6mm</td>
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<tr>
<td>2x cable gland axial</td>
<td>M12 axial</td>
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<td>-25...+70°C</td>
<td>-25...+70°C</td>
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*Factory set

Suggested Products

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<td>6GL/10,8</td>
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<td>4096</td>
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<td>CMF36-SSI (M) Magnet detection, bearing free, SSI</td>
<td>CMF36S-00002</td>
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<td>Cable gland</td>
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<td>1,000 m</td>
</tr>
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</table>

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

Illustrations are schematic diagrams. Binding dimension drawings and CAD data for specific order numbers at www.tr-electronic.com or on request.
Flanges

**Solid shaft**
6GL10,8 (round shaft)

**Solid shaft**
6FL10,8 (shaft with flat)

**Blind shaft**
8h7

**Bearing free**
Assembly Examples

**...**

---

*F36 singleturn*

---

Ø 13

Ø 15

+0,008

6

Ø 6

+0,02

0,2

Ø 5,97

±0,02

3,4
Samples

CMV36-SSI singleturn

CMV36-SSI multiturn

CMV36-DRIVE CLiQ multiturn

CMS36-SSI multiturn

CMF36-SSI singleturn

CDV36-SSI singleturn
Samples

CDV36-SSI multiturn

CDF36-SSI singleturn
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www.telestar-automation.it
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<td>P.O. Box 2543, Station B CDN-London, Ontario Canada N6A 4G9</td>
<td>+1 / 519-452 1999</td>
<td>+1 / 519-452 1177</td>
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<td>Postbus 1682 NL-6201 BR Maastricht</td>
<td>+31 / 43 352 3614</td>
<td>+31 / 43 352 3555</td>
<td><a href="mailto:info@tr-electronic.nl">info@tr-electronic.nl</a></td>
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<td>+46 875 676 80</td>
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<td>+82 /2-334 0577</td>
<td>+82 /2-862 1591</td>
<td><a href="mailto:sales@msintech.com">sales@msintech.com</a></td>
<td><a href="http://www.msintech.com">www.msintech.com</a></td>
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<tr>
<td>Sweden</td>
<td>TR Electronic Sweden AB</td>
<td>Djupdalsvägen 10 S-192 51 Sollentuna</td>
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