



**CTH60130** series provides a 60mm through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotating shaft installation, and a compact 130mm outside diameter, features long life, fiber brush contact technology for ultimate performance in many challenging applications.

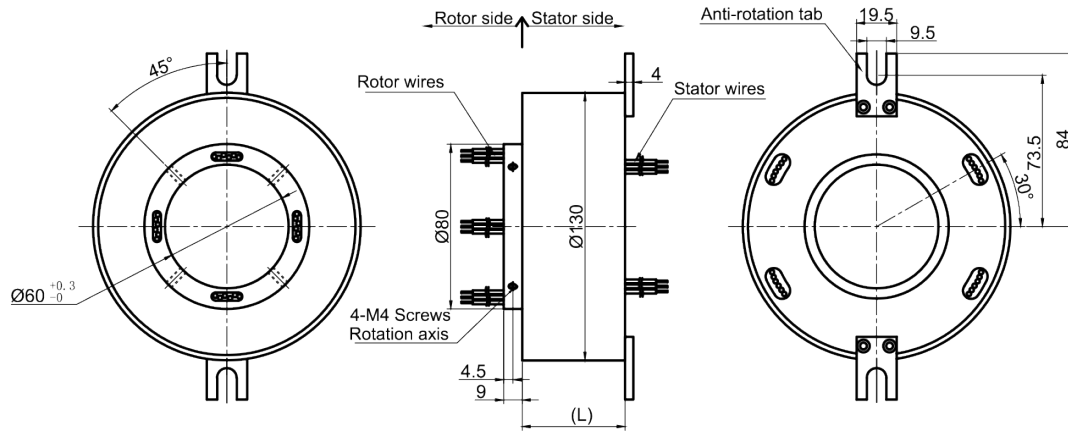
**CTH60130** series are standard, off-the-shelf products, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. It can transmit signal [2A], 10A, multiple 10A current when 360° degree free rotating.

## Technical Data

| Modele           | Lenght<br>mm | Circuits |     |
|------------------|--------------|----------|-----|
|                  |              | 5A       | 10A |
| CTH60130-00P/02S | 35,6         | 2        | 0   |
| CTH60130-02P/00S | 35,6         | 0        | 2   |
| CTH60130-00P/03S | 39,2         | 3        | 0   |
| CTH60130-03P/00S | 39,2         | 0        | 3   |
| CTH60130-00P/06S | 50           | 6        | 0   |
| CTH60130-02P/04S | 50           | 4        | 2   |
| CTH60130-04P/02S | 50           | 2        | 4   |
| CTH60130-06P/00S | 50           | 0        | 6   |
| CTH60130-00P/12S | 71,6         | 12       | 0   |
| CTH60130-02P/10S | 71,6         | 10       | 2   |
| CTH60130-03P/09S | 71,6         | 9        | 3   |
| CTH60130-06P/06S | 71,6         | 6        | 6   |
| CTH60130-08P/04S | 71,6         | 4        | 8   |
| CTH60130-10P/02S | 71,6         | 2        | 10  |
| CTH60130-12P/00S | 71,6         | 0        | 12  |
| CTH60130-00P/18S | 93,2         | 18       | 0   |
| CTH60130-02P/16S | 93,2         | 16       | 2   |
| CTH60130-04P/14S | 93,2         | 14       | 4   |
| CTH60130-06P/12S | 93,2         | 12       | 6   |
| CTH60130-08P/10S | 93,2         | 10       | 8   |
| CTH60130-10P/08S | 93,2         | 8        | 10  |
| CTH60130-12P/06S | 93,2         | 6        | 12  |
| CTH60130-14P/04S | 93,2         | 4        | 14  |
| CTH60130-16P/02S | 93,2         | 2        | 16  |
| CTH60130-00P/24S | 114,8        | 24       | 0   |
| CTH60130-04P/20S | 114,8        | 20       | 4   |
| CTH60130-06P/18S | 114,8        | 18       | 6   |
| CTH60130-12P/12S | 114,8        | 12       | 12  |
| CTH60130-18P/06S | 114,8        | 6        | 18  |
| CTH60130-24P/00S | 114,8        | 0        | 24  |
| CTH60130-00P/30S | 136,4        | 30       | 0   |
| CTH60130-06P/24S | 136,4        | 24       | 6   |
| CTH60130-12P/18S | 136,4        | 18       | 12  |
| CTH60130-18P/12S | 136,4        | 12       | 18  |
| CTH60130-24P/06S | 136,4        | 6        | 24  |
| CTH60130-30P/00S | 136,4        | 0        | 30  |

| Modele            | Lenght<br>mm | Circuits |     |
|-------------------|--------------|----------|-----|
|                   |              | 5A       | 10A |
| CTH60130-00P/36S  | 162          | 36       | 0   |
| CTH60130-06P/30S  | 162          | 30       | 6   |
| CTH60130-12P/24S  | 162          | 24       | 12  |
| CTH60130-36P/00S  | 162          | 0        | 36  |
| CTH60130-00P/42S  | 186,2        | 42       | 0   |
| CTH60130-06P/36S  | 186,2        | 36       | 6   |
| CTH60130-12P/30S  | 186,2        | 30       | 12  |
| CTH60130-00P/48S  | 207,8        | 48       | 0   |
| CTH60130-06P/42S  | 207,8        | 42       | 6   |
| CTH60130-09P/39S  | 207,8        | 39       | 9   |
| CTH60130-12P/36S  | 207,8        | 36       | 12  |
| CTH60130-18P/30S  | 207,8        | 30       | 18  |
| CTH60130-24P/24S  | 207,8        | 24       | 24  |
| CTH60130-00P/60S  | 251          | 60       | 0   |
| CTH60130-06P/54S  | 251          | 54       | 6   |
| CTH60130-09P/51S  | 251          | 51       | 9   |
| CTH60130-12P/48S  | 251          | 48       | 12  |
| CTH60130-00P/72S  | 298,2        | 72       | 0   |
| CTH60130-06P/66S  | 298,2        | 66       | 6   |
| CTH60130-12P/60S  | 298,2        | 60       | 12  |
| CTH60130-24P/48S  | 298,2        | 48       | 24  |
| CTH60130-36P/36S  | 298,2        | 36       | 36  |
| CTH60130-00P/84S  | 341,4        | 84       | 0   |
| CTH60130-12P/72S  | 341,4        | 72       | 12  |
| CTH60130-24P/60S  | 341,4        | 60       | 24  |
| CTH60130-36P/48S  | 341,4        | 48       | 36  |
| CTH60130-00P/96S  | 384,6        | 96       | 0   |
| CTH60130-12P/84S  | 384,6        | 84       | 12  |
| CTH60130-24P/72S  | 384,6        | 72       | 24  |
| CTH60130-36P/60S  | 384,6        | 60       | 36  |
| CTH60130-42P/54S  | 384,6        | 54       | 42  |
| CTH60130-00P/108S | 431,8        | 108      | 0   |
| CTH60130-12P/96S  | 431,8        | 96       | 12  |
| CTH60130-24P/84S  | 431,8        | 84       | 24  |
| CTH60130-36P/72S  | 431,8        | 72       | 36  |
| CTH60130-48P/60S  | 431,8        | 60       | 48  |

# DRAWING



Dimensions in mm

## LEAD WIRES COLOR CODE

| Ring  | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Color | BLK | RED | YEL | GRN | BLU | WHT | BLK | RED | YEL | GRN | BLU | WHT |

# SPECIFICATIONS

## ELECTRICAL DATA

| Parameter             | Power                       | Signal                      |
|-----------------------|-----------------------------|-----------------------------|
| Rated Voltage         | 0-690VAC/VDC                | 0-440VAC/VDC                |
| Insulation Resistance | $\geq 1000M\Omega / 500VDC$ | $\geq 1000M\Omega / 500VDC$ |
| Lead Wires            | AWG16#Teflon                | AWG22#Teflon                |
| Lead Length           | Standard 300mm (adjustable) |                             |
| Insulation Strength   | 1000VAC@50Hz, 60s           |                             |
| Electrical Noise      | <0,01 $\Omega$              |                             |

## MECHANICAL DATA

| Parameter           | Value                           |
|---------------------|---------------------------------|
| Working Life        | See Product Quality Level Table |
| Rotating Speed      | See Product Quality Level Table |
| Working Temperature | -30°C-80°C                      |
| Operating Humidity  | 0-85% RH                        |
| Contact Material    | See Product Quality Level Table |
| Housing Material    | Aluminium Alloy                 |
| Torque              | 0,1Nm; +0,03Nm/6rings           |
| Protection Grade    | IP51                            |

## PRODUCT QUALITY LEVEL TABLE

| Products Level Code | Max Rotating Speed | Working Life     | Contact Material |
|---------------------|--------------------|------------------|------------------|
| S                   | 250RPM             | 20 Million Revs  | Precious Metal   |
| I                   | 600RPM             | 80 Million Revs  | Gold-plated      |
| H                   | 1000RPM            | 150 Million Revs | Gold-Gold        |

# PART NUMBER COMPOSITION

**CTH 60130S - xxP/yyS - 00000 - XXXXX**

1 2 3 4 5 6 7 8 9 10

- ① Inner Dia
- ② Outer Dia
- ③ Quality Level  
S = Standard  
I = Industrial  
H = High level
- ④ Number of power wires
- ⑤ Number of signal wires
- ⑥ Flange  
00  
01  
..07
- ⑦ Flange Position  
O = No Flange  
R = Rotor  
I = Interior  
S = Stator
- ⑧ Rotor cable length  
0 = 300mm  
1 = 600mm  
2 = 1200mm  
X = Custom
- ⑨ Stator cable length  
0 = 300mm  
1 = 600mm  
2 = 1200mm  
X = Custom
- ⑩ Special Options  
01CAN = CanOpen  
01ECT= Ethercat  
01PRO = Profibus  
01ETH = Giga Ethernet  
IP65 = IP65  
IP68 = IP68

In accordance with our policy of continual product improvement, A2V reserves the right to amend the specification of these products without prior notification