



**CTH100185** series provides a 100mm through-bore for routing of hydraulic or pneumatic lines or hydraulic or pneumatic rotating shaft installation, and a compact 185mm outside diameter, features long life, fiber brush contact technology for ultimate performance in many challenging applications.

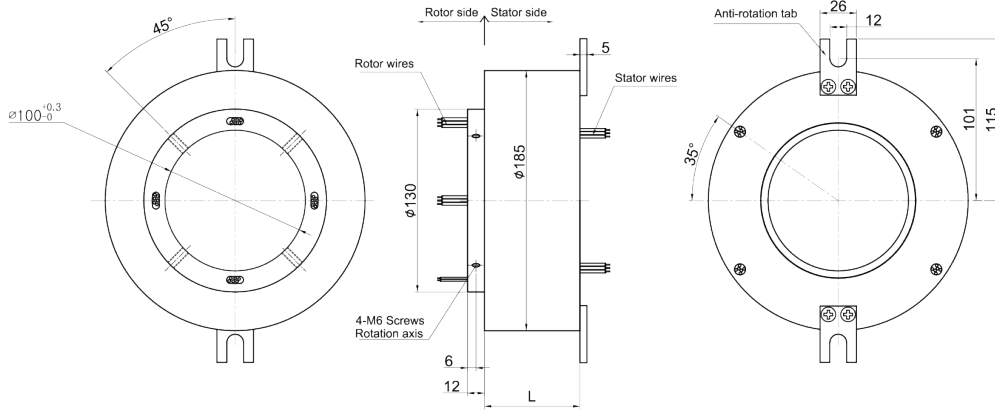
**CTH10085** series are standard, off-the-shelf products, Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. It can transmit signal [2A], 10A, multiple 10A current when 360° degree free rotating.

## Technical Data

Modele	Lenght	Circuits	
	mm	5A	10A
CTH100185-00P/02S	50	2	0
CTH100185-02P/00S	50	0	2
CTH100185-00P/03S	54	3	0
CTH100185-03P/00S	54	0	3
CTH100185-00P/06S	66	6	0
CTH100185-02P/04S	66	4	2
CTH100185-04P/02S	66	2	4
CTH100185-06P/00S	66	0	6
CTH100185-00P/12S	90	12	0
CTH100185-02P/10S	90	10	2
CTH100185-03P/09S	90	9	3
CTH100185-06P/06S	90	6	6
CTH100185-08P/04S	90	4	8
CTH100185-10P/02S	90	2	10
CTH100185-12P/00S	90	0	12
CTH100185-00P/18S	114	18	0
CTH100185-02P/16S	114	16	2
CTH100185-04P/14S	114	14	4
CTH100185-06P/12S	114	12	6
CTH100185-08P/10S	114	10	8
CTH100185-10P/08S	114	8	10
CTH100185-12P/06S	114	6	12
CTH100185-14P/04S	114	4	14
CTH100185-16P/02S	114	2	16
CTH100185-00P/24S	138	24	0
CTH100185-04P/20S	138	20	4
CTH100185-06P/18S	138	18	6
CTH100185-12P/12S	138	12	12
CTH100185-18P/06S	138	6	18
CTH100185-24P/00S	138	0	24
CTH100185-00P/30S	162	30	0
CTH100185-06P/24S	162	24	6
CTH100185-12P/18S	162	18	12
CTH100185-18P/12S	162	12	18
CTH100185-24P/06S	162	6	24
CTH100185-30P/00S	162	0	30

Modele	Lenght	Circuits	
	mm	5A	10A
CTH100185-00P/36S	190	36	0
CTH100185-06P/30S	190	30	6
CTH100185-12P/24S	190	24	12
CTH100185-36P/00S	190	0	36
CTH100185-00P/42S	226	42	0
CTH100185-06P/36S	226	36	6
CTH100185-12P/30S	226	30	12
CTH100185-00P/48S	250	48	0
CTH100185-06P/42S	250	42	6
CTH100185-09P/39S	250	39	9
CTH100185-12P/36S	250	36	12
CTH100185-18P/30S	250	30	18
CTH100185-24P/24S	250	24	24
CTH100185-00P/60S	298	60	0
CTH100185-06P/54S	298	54	6
CTH100185-09P/51S	298	51	9
CTH100185-12P/48S	298	48	12
CTH100185-00P/72S	350	72	0
CTH100185-06P/66S	350	66	6
CTH100185-12P/60S	350	60	12
CTH100185-24P/48S	350	48	24
CTH100185-36P/36S	350	36	36
CTH100185-00P/84S	398	84	0
CTH100185-12P/72S	398	72	12
CTH100185-24P/60S	398	60	24
CTH100185-36P/48S	398	48	36
CTH100185-00P/96S	450	96	0
CTH100185-12P/84S	450	84	12
CTH100185-24P/72S	450	72	24
CTH100185-36P/60S	450	60	36
CTH100185-42P/54S	450	54	42
CTH100185-00P/108S	498	108	0
CTH100185-12P/96S	498	96	12
CTH100185-24P/84S	498	84	24
CTH100185-36P/72S	498	72	36
CTH100185-48P/60S	498	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	150RPM	10 Million Revs	Precious Metal
I	400RPM	30 Million Revs	Gold-plated
H	800RPM	80 Million Revs	Gold-Gold

# PART NUMBER COMPOSITION

**CTH 100185S - 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  
0 = 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