



Technical Characteristics

Suitable for long-stroke cylinder applications Easy to diagnose, LED indicator status indication

Not limited by installation space

Non-wear, non-contact measurement method

Rugged and fully enclosed design

Linear measurement, absolute value output

Curly packaging saves space, packaging and transportation costs Direct displacement output: Analog, SSI, Profibus-DP, CANopen, Start/Stop, Profinet, EtherCAT



C C Product Parameters

Input

Measurement data Position magnet ring

Stroke length 500~7620mm, customized according to customer needs, Up to 23 meters

Number of measurements Multiple, depending on the output interface

Output

Interface Analog、SSI、Profibus-DP、CANopen、Start/Stop、Profinet、EtherCAT

Resolution Depending on the output

Nonlinearity

<±0.01% of full scale, minimum ±50µm

Repetition accuracy

<±0.001% of full scale, min. 1µm

Hysteresis <10µm

1KHz (range \leq 1m) 500Hz (1m< range \leq 2m)

Update time

250Hz (2m<range≤3m), customizable

Temperature coefficient

icient <30ppm/°C

Operating conditions

Magnet velocity Arbitrary

Protection level IP65 (When combined with pressure-resistant outer tube, the protection level can reach IP67)

Operating temperature -40°C ~ +85°C (up to 105°C)

Humidity/dew point Humidity 90%, no condensation

Shock index GB/T2423.5 100g(6ms)

Vibration index GB/T2423.10 20g/10~2000Hz

EMC Test GB/T17626.2/3/4/6/8, Grade 4/3/4/3/3, Class A, CE Certification

Electrical connection

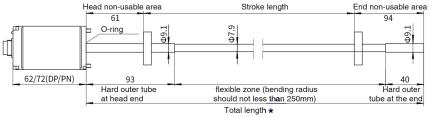
o Structure and materials

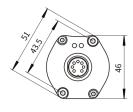
Input voltage	+24Vdc±20%	Failure indication	Electronic bin cover with LEDs display
operating current	<90mA (varying with range)	Electronic bin	Aluminum alloy
Polarity protection	Max30Vdc	Measuring rod	Stainless steel hose, minimum bending radius 250mm, shipping radius 400mm
Overvoltage protection	Max.36Vdc	Position magnet	Standard magnet ring and various ring magnets
Insulation resistance	$>$ 10M Ω	Installation direction	Any direction
Insulation strength	500V	Outgoing mode	Cable outlet or Connector



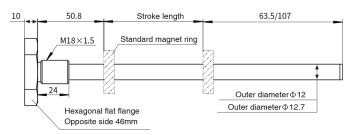
A a Installation and Use Instructions

• Dimensions of RF flexible outer tube sensor





* <7620mm, deviation0~+8mm; >7620mm, deviation-5~+15mm。 (Total length deviation has no effect on Stroke length)

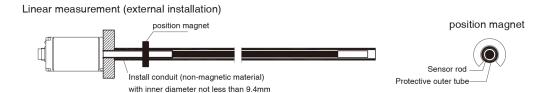


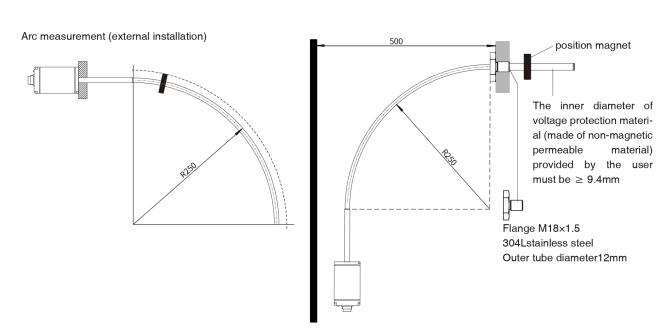
Option: Pressure-resistant outer pipe with flange, outer diameter 12mm/12.7mm

The flanged pressure-resistant outer pipe is used to cooperate with RF flexible sensor, which can withstand 35MPa pressure for hydraulic cylinder and provide protection for RF sensor. For large Cylinder, it is necessary to drill a $_{\varphi}$ 18mm deep hole in the piston rod when selecting the pressure pipe with 12mm outer diameter, which can match our magnet ring with large inner diameter.

Installation instruction of RF flexible outer tube sensor

Two non-magnetic bolts are required for the installation of the sensor electronic bin. Long-stroke sensors need non-magnetic tube support (inner diameter \geq 9.4), or bend into the desired shape. Sensors with hexagonal flanges can be easily mounted using non-magnetic bolts. Or you can choose a flanged pressure-resistant outer pipe with an outer diameter of 12mm, with a maximum stroke of 7620mm.







X X Selection Guide-Analog Quantity



01 - 02	Sensor shell form
R F	Hose shell
03 - 07	Measuring range
	Four digits, less than four digits are preceded by zero, M means metric system, unitmm
08 - 09	Magnet ring type/mounting thread form
C 1	Without flange
C 2	With flange M18×1.5
C 3	With flange M20×1.5
C 4	With flange 3/4"-16UNF-3A
10 - 13	Connection form
10 - 11	Cable outlet mode
DH	PUR sheath, orange,-20~90 ℃, end scattered, line color 1
D H	
	line color 1 PVC sheath, orange,-20-105 C, end scattered,
DU	line color 1 PVC sheath, orange,-20-105 C, end scattered, line color 2 PVC sheath, orange,-20~105C, end scattered,
D U	line color 1 PVC sheath, orange,-20-105 °C, end scattered, line color 2 PVC sheath, orange,-20~105C, end scattered, line color 3 PUR sheath, orange,-20~90 °C, end with 6-pin
D U D B	line color 1 PVC sheath, orange,-20-105 °C, end scattered, line color 2 PVC sheath, orange,-20~105 °C, end scattered, line color 3 PUR sheath, orange,-20~90 °C, end with 6-pin connector PVC sheath, orange,-20~105 °C, end with 6-pin
D U D B D I D V	line color 1 PVC sheath, orange,-20-105 °C, end scattered, line color 2 PVC sheath, orange,-20~105 °C, end scattered, line color 3 PUR sheath, orange,-20~90 °C, end with 6-pin connector PVC sheath, orange,-20~105 °C, end with 6-pin connector PVC sheath, orange,-20~105 °C, end with 8-pin
D U D B D I D V D C	line color 1 PVC sheath, orange,-20-105°C, end scattered, line color 2 PVC sheath, orange,-20~105°C, end scattered, line color 3 PUR sheath, orange,-20~90°C, end with 6-pin connector PVC sheath, orange,-20~105°C, end with 6-pin connector PVC sheath, orange,-20~105°C, end with 8-pin connector Cable length, 01~99 units: meters
D U D B D I D V D C	line color 1 PVC sheath, orange,-20-105 °C, end scattered, line color 2 PVC sheath, orange,-20~105 °C, end scattered, line color 3 PUR sheath, orange,-20~90 °C, end with 6-pin connector PVC sheath, orange,-20~105 °C, end with 6-pin connector PVC sheath, orange,-20~105 °C, end with 8-pin connector Cable length, 01~99 units: meters (Cable outlet mode)
D U D B D I D V D C 12-13	line color 1 PVC sheath, orange,-20-105°C, end scattered, line color 2 PVC sheath, orange,-20~105°C, end scattered, line color 3 PUR sheath, orange,-20~90°C, end with 6-pin connector PVC sheath, orange,-20~105°C, end with 6-pin connector PVC sheath, orange,-20~105°C, end with 8-pin connector Cable length, 01~99 units: meters (Cable outlet mode) Connector mode

14 17	O'mad automatically
14 - 17	Signal output mode
14 - 15	Output form and direction
A 0	Current output, 4 ~ 20mA
A 1	Current output, 20 ~ 4mA
A 2	Current output, 0 ~ 20mA
A 3	Current output, 20 ~ 0mA
V 0	Voltage output, 0 ~ 10V
V 1	Voltage output, 10 ~ 0V
V 2	Voltage output, -10 ~ +10V
V 3	Voltage output, +10 ~ -10V
V 4	Voltage output, 0 ~ 5V
V 5	Voltage output, 5 ~ 0V
V 6	Voltage output, -5 ~ +5V
V 7	Voltage output, +5 ~ -5V
16	Number of magnet rings
1	Single magnet ring
17	No magnet ring state
Α	Keep the original value
В	Maximum value
С	Minimum value
18 - 19	Non-usable area at head and end, customizable
S 0	50.8mm+63.5mm
S 9	50.8mm+107mm
SB	61mm+94mm

Cable Accessories Selection Guide

• Description: RF regular stroke is 500~7620mm, if you need longer stroke, please call our company to customize.

Selection example:RF-M6000-C1-PH60-A01C-S0

Indicates: the installation mode of the ordered product is built-in RF flexible structure, the stroke length is 6000m, six pin connector, 4-20A output, the output value of non-magnet ring is the minimum value, the single magnet ring, without connecting flange, the non-usable area at the head is 50.8mm, and the non-usable area at the end is 63.5mm.



X × Selection Guide-SSI

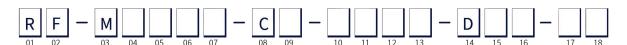


01 02	03 04 05 06 07 08 09 10	11 12 13	14 15 1	6 17 18	19 20 21
01 - 02	Sensor shell form	14 - 19	Signal output mo	ode	
R F	Hose shell	15	Data length		
00 07		1	24bit 2	25bit	3 26bit*
03 - 07	Measuring range		* 26-bit are parity	bits and 25-bit a	re status bits
	Four digits, less than four digits are preceded by zero. M means metric system, unitmm	16	Data format		
08 - 09	Magnet ring type/mounting thread form	В	Binary G	Gray code	
C 1	Without flanges	17	Resolution		
C 2	With flange M18×1.5	1	0.1mm 2	0.05mm	
C 3	With flange M20×1.5	3	0.02mm 4	0.01mm	
C 4	· ·	5	0.005mm 6	0.002mm	
C 4	With flange 3/4"-16UNF-3A	7	0.001mm 8	0.04mm	
10 - 13	Connection form	9	0.0005mm 0	0.0001mm	
10 - 11	Cable outlet mode	18	Direction		
DH	PUR sheath, orange,-20~90C, end scattered, line color 1	0	Forward 1	Reverse	
DU	PVC sheath, orange,-20~105 $^{\circ}\mathrm{C}$, end scattered, line color 2	19	Mode Regular 1 Sy	nchronization	2 High undate
D B	PVC sheath, orange,-20-105C, end scattered, line color 3		riegulai 1 Oy	Tiornomization	rate
DI	PUR sheath, orange,-20~90℃, end with 7-pin	20 - 21	Non-usable area	at head and en	d, customizable
	connector	S 0	50.8mm+63.5mm		
D V	PVC sheath, orange,-20~105 ℃, end with 7-pin connector	S 9	50.8mm+107mm		
D C	PVC sheath, orange,-20~105 $^{\circ}\mathrm{C}$, end with 8-pin connector	S B	61mm+94mm		
12 - 13	Cable outlet mode: cable length, 01~99 meters				
10 - 13	Connector mode				
P H 7	0 M16 male connector (7 pins)				
P B 8	0 M16 male connector (8-pin)				

 $\textbf{Note:} \ \ \textbf{For supporting cables, please refer to SS Cable Accessories Selection Guide}$



X X Selection Guide-Profibus-DP



01 - 02	Sensor shell form
---------	-------------------

R F Hose shell

03 - 07 Measuring range

Four digits, less than four digits are preceded by zero, M means metric system, unit mm

08 - 09 Magnet ring type/mounting thread form

C 1 Without flange

C 3

C 2 With flange M18×1.5

C 4 With flange 3/4"-16UNF-3A

With flange M20×1.5

10 - 13 Connection form

10 - 11 Cable outlet mode

D A Single cable outlet, PUR sheath, cyan,-20~80 C, end scattered

D B Double cable outlet, PUR sheath, cyan,-20~80C, end scattered

D C Double cable outlet, PUR sheath, cyan,-20~80°C, end M16, 6-core, one male connector, one female

12 - 13 Cable outlet mode: cable length, 01~99 meters

10 - 13 Connector mode

P D 5 3 One set of 5-pin male connector (M12), one set of 5-pin female connector (M12), one set of 4-pin male connector (M8)

PD63 A set of 6-pin male connector (M16), a set of 6-pin female connector (M16)

Note: For supporting cables, please refer to Profibus-DP Cable Accessories Selection Guide

14 - 16	Signal output mode		
14	Profibus Protocol		
15	Number of Magnet rings (1~9 optional)		
16	0-single magnet B-single/multiple Magnet rings		
17 - 18	Non-usable area at head and end, customizable		
S 0	50.8mm+63.5mm		
S 9	50.8mm+107mm		
SB			



X x Selection Guide-CAN Bus



01 - 02	Sensor shell form
RF	Hose shell
03 - 07	Measuring range
	Four digite, lose than four digite are proceeded

	Four digits, less than four digits are preceded by zero, M means metric system, unit mm
08 - 09	Magnet ring type/mounting thread form

С	1	Without flange
С	2	With flange M18×1.5
С	3	With flange M20×1.5
С	4	With flange 3/4"-16UNF-3A

10 - 13	Connection form	
10 - 11	Cable outlet mode	
D A	PVC sheath, purple, 4 cores,-40 °C ~75 °C, end scattered	

		Cable outlet mode: cable length, 01~99meters
0 D R	1	PVC sheath, length 150mm, end 5-pin male connector

10 - 13			Connector mode	
Р	D	6	0	6-pin male connector (M16)
Р	D	6	2	Two sets of 6-pin male connector (M16)
Р	D	5	0	5-pin male connector (M12)
Р	D	5	2	5-pin male connector (M12), one set of 5-pin
	female connector (M12)			
Р	D	5	4	5-pin male connector (M12), 5-pin female

connector (M12), 4-pin male connector (M8)

Note: For supporting cables, please refer to CAN bus cable Accessories selection

44.40		v2	
14 - 18	Signal output mode		
14	Interface		
С	CAN bus		
15	Protocol typ	е	
1	CANopen	2	CANBasic
16	Baud		
1	1000kBit/s	2	800kBit/s
3	500kBit/s	4	250kBit/s
5	125kBit/s	6	100kBit/s
7	50kBit/s	8	20kBit/s
17	Resolution		
1	0.1mm	2	0.05mm
3	0.02mm	4	0.01mm
5	0.005mm	6	0.002mm
7	0.001mm		
18	Number of N	/lagne	et rings (1~9 optional)
19 - 20	Non-usable area at head and end, customizable		
S 0	50.8mm+63.5mm		

50.8mm+107mm 61mm+94mm



X X Selection Guide-Profinet Output



01 - 02 Sensor shell form

R F Hose shell

03 - 07 Measuring range

Four digits, less than four digits are preceded by zero, M means metric system, unit mm

08 - 09 Magnet ring type/mounting thread form

C 1 Without flange

C 2 With flange M18×1.5

C 3 With flange M20×1.5

C 4 With flange 3/4"-16UNF-3A

10 - 13 Connection form

| D || A || * || * | Single cable outlet, light green, PUR sheath (6 cores),-40 ℃ ~85C (cable length, unit: meters)

D B * D Double cable outlet, light green, PUR sheath (one set of 6 cores, 40C~85C; one set of 4 cores,-40°C~70°C) (cable length, unit: meters)

P D 5 6 2 sets of 4-pin M12 female connector, 1 set of 4-pin M8 male connector

Note: For supporting cables, please refer to the Guide for Selection of Industrial Ethernet Cable Accessories

14 - 16 Communication interface

14 N Profinet communication interface

15 Number of Magnet rings (1~9 optional)

16 0-General, customizable

17 - 18 Non-usable area at head and end, customizable

S 0 50.8mm+63.5mm

S 9 50.8mm+107mm

S B **61mm+94mm**



X x Selection Guide-EtherCAT Output



01 - 02 Sensor shell form

R F Hose shell

03 - 07 Measuring range

Four digits, less than four digits are preceded by zero, M means metric system, unit mm

08 - 09 Magnet ring type/mounting thread form

- C 1 Without flange
- C 2 With flange M18×1.5
- C 3 With flange M20×1.5
- C 4 With flange 3/4"-16UNF-3A

10 - 13 Connection form

- D A * Single cable outlet, light green, PUR sheath (6 cores),-40 C~85 C (** means cable length, unit: meters)
- Double cable outlet, light green, PUR sheath (one set of 6 cores, -40 °C ~85 °C; one set of 4 cores, -40 °C ~70 °C) (** means cable length, unit: meters)
- P D 5 6 . 2 sets of 4-pin M12 female connector, 1 set of 4-pin M8 male connector

14 - 17 Communication interface

14 - 15 Sensor form

E | 1 | EtherCAT, 1-9magnets, position and speed, distributed clock optional

16 - 17 Number of Magnet rings

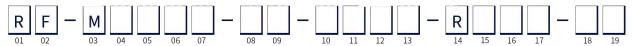
01~09 optional

18 - 19 Non-usable area at head and end, customizable

- S 0 50.8mm+63.5mm
- S 9 50.8mm+107mm
- S B 61mm+94mm



X x Selection Guide-Start/Stop Output



Sensor shell form

R F Hose shell

03 - 07Measuring range

Four digits, less than four digits are preceded by zero, M means metric system, unit mm

08 - 09 Magnet ring type/mounting thread form

\mathcal{C}	1	Without flange
_ L	1 1	I WILLIOUL HALIUK

С 2 With flange M18×1.5

C 3 With flange M20×1.5

С 4 With flange 3/4"-16UNF-3A

Connection form

Cable outlet mode

DH PUR sheath, orange,-20~90°C, end scattered, cable color 1 D U PVC sheath, orange,-20~105°C, end scattered, cable color 2 D B PVC sheath, orange,-20~105°C, end scattered, cable color 3

DI PUR sheath, orange,-20~90°C, end 6-pin connector

D ٧ PVC sheath, orange,-20~105°C, end 6-pin connector D C PVC sheath, orange,-20~105°C, end 8-pin connector

Cable length, 01~99 units: meters (Cable outlet mode)

10 - 13 Cable outlet mode

cable outlet first and end with plastic connector

D Scattered wire with plastic connector 65mm D R Scattered wire with plastic connector 170mm

D R Scattered wire with plastic connector 230mm

D R 5 Scattered wire with plastic connector 350mm

10 - 13 Connector mode

Н 6 M16 male connector (6 pins) В M16 male connector (8-pin)

Note: For supporting cables, please refer to the Guide for Selection of Cable Accessories

14 - 17 Signal output mode

15 Input voltage

1 + 24Vdc (- 20% ~ + 20%) 2

+ 9 ~ 28.8Vdc

16 - 17 **Output signal**

0 | 1 Start/Stop, multi-Magnet ring

18 - 19 Non-usable area at head and end, customizable

S 0 50.8mm+63.5mm S 9 50.8mm+107mm

S В 61mm+94mm

X X Selection Guide-Pressure Outer Tube



01 - 02RF flange measuring rod

Α Flange measuring rod, measuring rod outer diameter 12mm F В Flange measuring rod, measuring rod outer diameter 12.7 mm F С Flange measuring rod, measuring rod outer diameter 10mm

03 - 04Flange thread specification

3/4"-16UNF-3A

1 M18×1.5 S S 2 M20×1.5

3

05 - 09Measuring range

Four digits, less than four digits are preceded by zero, M means metric system, unit mm

Non-usable area at head and end, customizable

0 50.8mm+63.5mm 9 50.8mm+107mm



J J Wiring Mode

When the sensor is a connector output, refer to the pin definition in the following table for wiring mode; when the sensor is cable outlet cable output, refer to the cable color definition in the following table for connection mode

Analog



 Pin arrangement of six-pin male 	connector
(facing the sensor head)	

Pin	Cable color 1*	Cable color 2*	Pin/wire function definition
1	Blue	Grey	No.1 Magnet position signal(+)
2	Green	Pink	Position signal of No.1 Magnet(-)
3	Yellow	Yellow	Reservation
4	White	Green	Reservation
5	Red	Brown	+24Vdc power supply (-20%~+20%)
6	Black	White	0 Vdc (power supply circuit)

Note: * Cable color 1: Cable PUR sheath, orange,-20-90 C

Analog



• Pin arrangement of eight-pin male connector (facing the sensor head direction)

Pin	Cable color3*	Pin/wire function definition
1	Yellow	Current output
2	Grey	0Vdc(Current/Voltage Loop)
3	Pink	Reservation
4	-	Reservation
5	Green	010V
6	Blue	0 Vdc (power supply circuit)
7	Brown	+24Vdc power supply (-20%~+20%)
8	White	Reservation

SSI



• Pin arrangement of seven-pin male connector (facing the sensor head)

(IGOII	ig the conte	or rioday	
Pin	Cable color 1*	Cable color 2*	Pin/wire function definition
1	White	Grey	Data (-)
2	Yellow	Pink	Data (+)
3	Blue	Yellow	Clock (+)
4	Green	Green	Clock (-)
5	Red	Brown	+24Vdc power supply (-20%~+20%)
6	Black	White	0 Vdc
7	-	-	Do not connect

Note: * Cable color 1: Cable PUR sheath, orange,-20-90 C

SSI



• Pin arrangement of eight-pin male connector (facing the sensor head direction)

Pin	Cable color3*	Pin/wire function definition
1	Yellow	Clock (+)
2	Grey	Data (+)
3	Pink	Clock (-)
4	-	Reservation
5	Green	Data (-)
6	Blue	0 Vdc (power supply circuit)
7	Brown	+24Vdc power supply (-20%~+20%)
8	White	Reservation

^{*} Cable color 2/3: Cable PVC sheath, orange,-20-105 C

^{*} Cable color 2/3: Cable PVC sheath, orange,-20-105°C



J J Wiring Mode

When the sensor is a connector output, refer to the pin definition in the following table for wiring mode; when the sensor is cable outlet cable output, refer to the cable color definition in the following table for connection mode

Profibus-DP bus output



Four-pin connector socket (for power supply)

Pin arrangement of four-pin male connector (facing the sensor head)

Pin	Cable color	Pin/wire function definition
1	Brown	+24Vdc power supply (-20%~+20%)
2	White	Do not connect
3	Blue	0Vdc(power supply circuit)
4	Black	Do not connect

Profibus-DP bus output





Profibus-DP bus output





Five-pin male connector and female connector pin arrangement (facing the sensor head direction)

0011	ooi iioaa a	il collotty	anoc		0
Pin	Cable color	Pin/wire function definition	Pin	Cable color	F
1	-	VP+5N (for end connections only) *	1	Green	F
2	Green	RxD/TxD-N(bus)	2	Red	F
3	-	DGnd (for end connections only) *	3	-	(
4	Red	RxD/TxD-P(bus)	4	-	(
5	Shielded wire	for end connections only	5	Black	+

Note: * Only applicable to signal connection of sensor female connector

 The pins of the six-pin male connector and female connector are arranged in the direction of the sensor head)

Pin	Cable color	Pin/wire function definition
1	Green	RxD/TxD-N(bus)
2	Red	RxD/TxD-P(bus)
3	-	DGnd (for end connections only) *
4	-	VP+5N (for end connections only) *
5	Black	+24Vdc power supply

(-20%~+20%)

Blue 0 Vdc (power supply circuit)

CAN bus output



 Pin arrangement of 	six-pin	male	connector
(facing the sensor l	nead)		

Pin	Cable color	Pin/wire function definition
1	Green	CAN (-)
2	Yellow	CAN (+)
3	-	Do not connect
4	-	Do not connect
5	Brown	+24Vdc power supply (-20%~+20%)
6	White	0 Vdc (power supply circuit)



CAN bus output

Four-pin connector socket (for power supply)

Pin arrangement of four-pin male connector (facing the sensor head)

Pin	Cable color	Pin/wire function definition
1	Brown	+24 Vdc power supply(-20%~+20%)
2	White	Do not connect
3	Blue	0Vdc(power supply circuit)
4	Black	Do not connect

CAN bus output





Five-pin male connector and female connector pin arrangement (facing the sensor head direction)

Pin	Cable color	Pin/wire function definition
1	-	Do not connect
2	Brown	+24 Vdc power supply (-20%~+20%)
3	White	0Vdc (power supply circuit)
4	Yellow	CAN (+)
5	Green	CAN (-)

 $[\]star$ Only applicable to signal connection of sensor female connector



J J Wiring Mode

When the sensor is a connector output, refer to the pin definition in the following table for wiring mode; when the sensor is cable outlet cable output, refer to the cable color definition in the following table for connection mode

Profinet Output



• Connector Connection Mode (Interface 1, 2)			
Pin	Line color	Pin/wire function definition	
1	Yellow	Tx +	
2	White	Rx+	
3	Orange	Tx -	
4	Blue	Rx -	

• Single cable outlet connection mode

Pin	Line color 1*	Pin/wire function definition
1	Yellow	Tx +
2	White	Rx+
3	Orange	Tx -
4	Blue	Rx -
5	Red	24Vdc
6	Black	COM

Note: * Line color 1: light green, PUR sheath, 6 cores,-40C~85 $^{\circ}\mathrm{C}$

Profinet Output



4-pin connector socket (for power supply)

• Connector Connection Mode (Interface 3)

Pin	Line color	Pin/wire function definition
1	Brown	+24Vdc(-20%~+20%)
2	White	Do not connect
3	Blue	COM
4	Black	Do not connect

• Double cable outlet connection mode

Pin	Line color1*	Line color2*	Pin/wire function definition
1	Yellow	Yellow	Tx +
2	White	White	Rx +
3	Orange	Orange	Tx -
4	Blue	Blue	Rx -
5	Red	-	24Vdc
6	Black	_	COM

Note: * Line color 2: light green, PUR sheath, 4 cores,-40C~70 $^{\circ}\mathrm{C}$

Start/Stop Output



 6-pin male connector 	arrangement (facing the
sensor head)	20	

Pin	Line color 1*	Line color 2*	Pin/wire function definition
1	Blue	Grey	Stop (-)
2	Green	Pink	Stop (+)
3	Yellow	Yellow	Start (+)
4	White	Green	Start (-)
5	Red	Brown	+24Vdc power supply (-20%~+20%)
6	Black	White	0 Vdc



J J Wiring Mode

When the sensor is a connector output, refer to the pin definition in the following table for wiring mode; when the sensor is cable outlet cable output, refer to the cable color definition in the following table for connection mode

EtherCAT Output



• Connector Connection Mode (Interface 1, 2)

Pin	Line color	Pin/wire function definition
1	Yellow	Tx +
2	White	Rx+
3	Orange	Tx -
4	Blue	By -

• Single cable outlet connection mode

Line color 1*	Pin/wire function definition
Yellow	Tx+
White	Rx+
Orange	Tx -
Blue	Rx -
Red	24Vdc
Black	COM

Note: * Line color 1: light green, PUR sheath, 6 cores,-40C~85 °C

	2	4	\
EtherCAT Output	•	8	4-pin connector socket
·		\mathcal{L}	(for power supply)

Connector Connection Mode (Interface 3)

Pin	Line color	Pin/wire function definition
1	Brown	+24Vdc (-20%~+20%)
2	White	Do not connect
3	Blue	COM
4	Black	Do not connect

• Double cable outlet connection mode

Line color1*	Line color2*	Pin/wire function definition
Yellow	Yellow	Tx +
White	White	Rx +
Orange	Orange	Tx -
Blue	Blue	Rx -
Red	-	24Vdc
Black	-	COM

Note: * Line color 2: light green, PUR sheath, 4 cores,-40C~70 $^{\circ}\mathrm{C}$