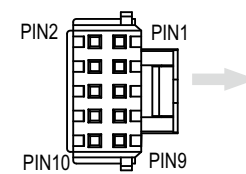


Interface definition

IO interface
HX20028-10Y(PHB)



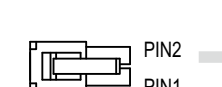
PIN	Signal	Color	Pin function
1	DO1	Red	Digital signal output;Open-collector output, maximum voltage 30 V, drive capability 100 mA
2	DI1	White	Digital signal input;High level: 3–6.25 VDC;Low level: 0–1 VDC Input impedance: 2 kΩ;Maximum frequency: 1 kHz
3	CANH	Yellow	CAN signal positive
4	CANL	Orange	CAN signal negative
5	COM	Green	Common terminal
6	GNDC	Black	Signal ground
7	RS485A	Gray	RS485 data positive
8	RS485B	Purple	RS485 data negative
9	ID1	Brown	ID1 floating, ID2 floating: Use internal stored station ID, default 0 ID1 connected to COM, ID2 floating: Station ID 1ID1 floating, ID2 connected to GNDC: Station ID 2 ID1 connected to COM, ID2 connected to COM: Station ID 3 The drive reads the ID at power-on and uses it as the station ID. If the ID is set online, power must be cycled for it to take effect.
10	ID2	Blue	

Braking resistor interface
HX42000-2RN



PIN	Signal	Color
1	DC-	black
2	DC+	red

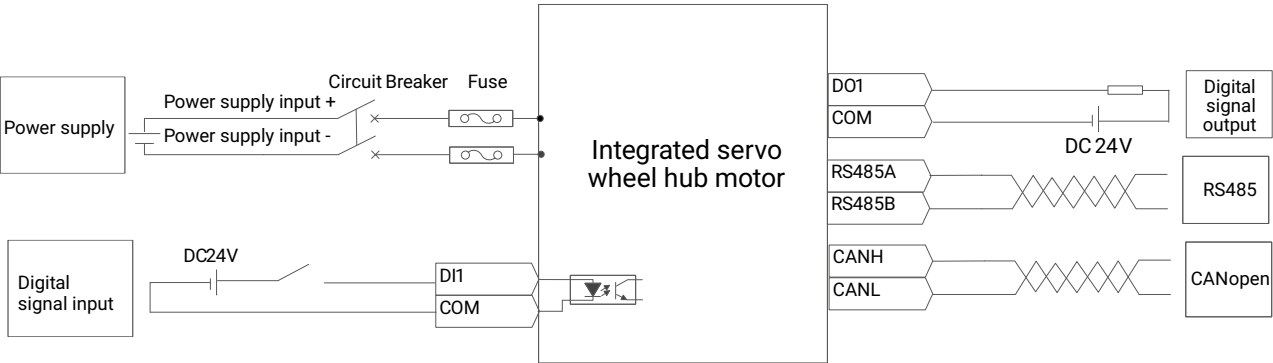
Power interface
HX42000-2R(5557)



PIN	Signal	Color
1	RB-	blue
2	RB+	brown

Note: iSML series external cable. Kinco EXC-iSML-AA-A5 external cable can be purchased

iSML series electrical wiring diagram



iSML Integrated Servo Wheel Hub Motor

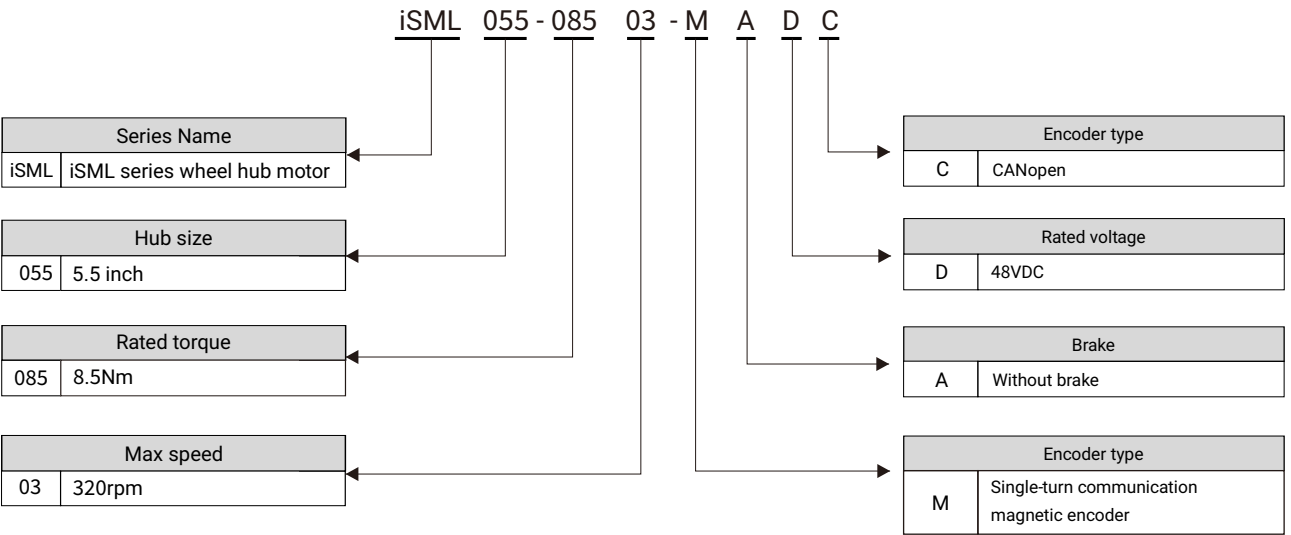


- ✓ High torque and strong overload capacity
- ✓ High protection class(IP65)
- ✓ Smooth operation at low speeds
- ✓ The drive and wheel hub are integrated, making installation convenient

Product Features

Service industry: Applicable to service robots in cleaning, disinfection, inspection, delivery, guidance and other scenarios
logistics storage:Drives AGV to complete cargo handling, loading and unloading tasks
Medical equipment industry:Small-scale systems

Naming rule



■ Parameter Specification

Model	iSML055-08503-MADC
Power Supply(VDC)	48
Rated power (W)	186
Rated Current (Arms)	5.5
Rated Speed (rpm)	210
Rated Torque (N.m)	8.5
Max Current (Arms)	16
Max Speed (rpm)	320
Max Torque (N.m)	25.5
Max. radial load Fr(N)	≥200
Insulation Resistance (MΩ)	1500
Tire Diameter (mm)	140
Output Shaft Diameter (mm)	12mm after cutting the edges on both sides, hole diameterΦ7.5mm
Tire Material	Polyurethane
Tire Hardness Rating	80A
Weight (Kg)	3.35
Insulation Class	B
Protection Degree	IP65
Duty	S3-10min-60% (intermittent periodic duty, cycle time 10min, 60% working time)
RS485 Debug Port	Supports a max baud rate of 115.2Kbps
CAN BUS	Supports a max baud rate of 1Mbps and can communicate with the controller via the CANopen protocol
Overvoltage Alarm Voltage(V)	DC68V±2V
Undervoltage Alarm Voltage(V)	DC18V±2V
Noise	<65dB
Cooling Method	Natural cooling
Operation Temperature	0~40℃
Storage Temperature	-20~60℃
Humidity (no condensation)	Below 90% RH (no condensation)
Altitude	Less than 2000m, power derating 1.5%/100m between 1000m and 2000m
Atmosphere Pressure	86kpa~106kpa

■ iSML mechanical dimensions

