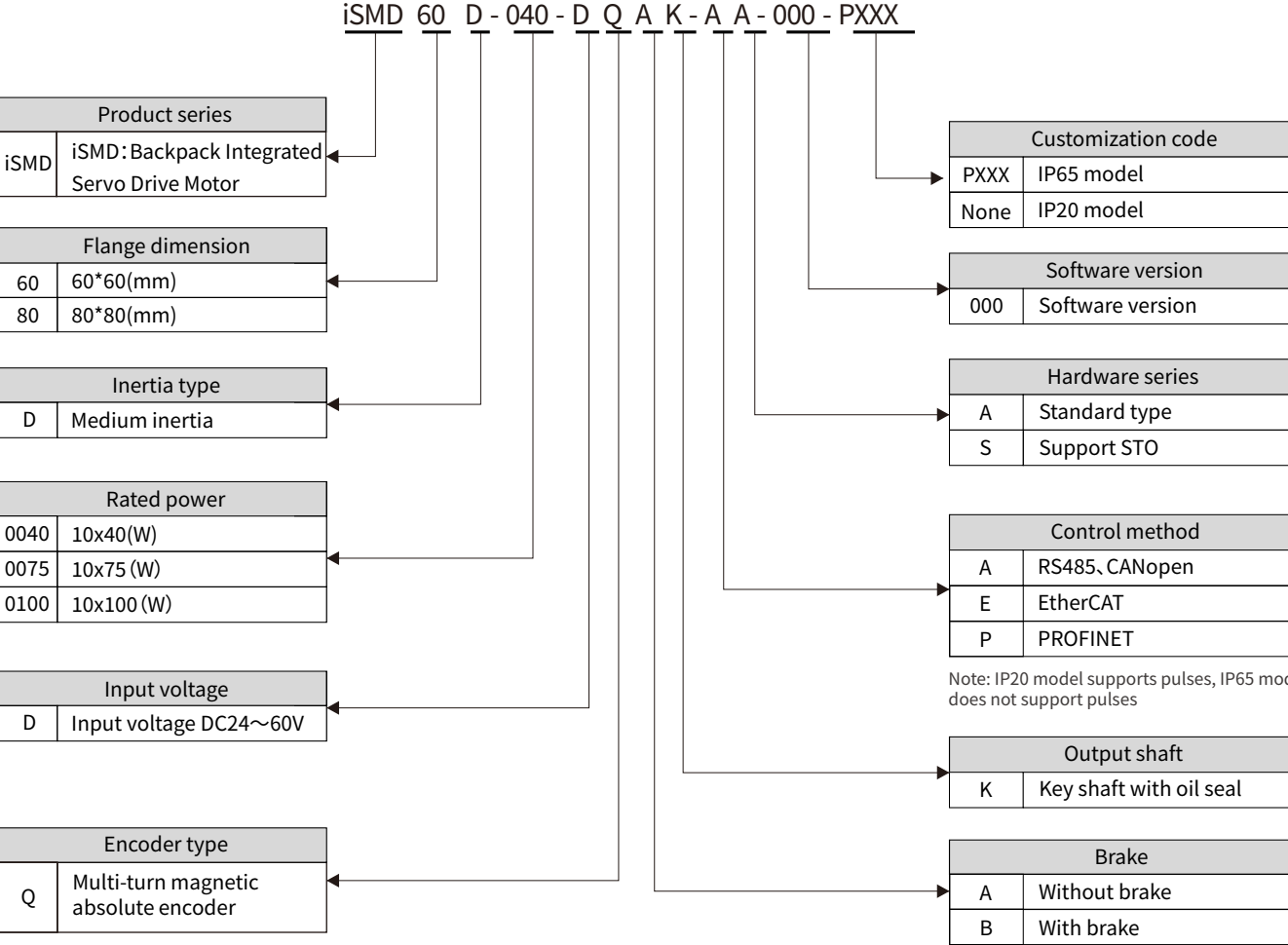


■ Naming rules



iSMD high-performance integrated servo drive motor



Wide voltage input
DC24V~ DC60V



Integrated design
On-site distributed installation
efficient space utilization



Combining the servo driver
motor and bus interface together
with a compact appearance.

Seven Major Advantages

1 Integrated Design, Significantly Reducing Overall Operating Costs

Adopting a highly integrated all-in-one structure, the volume is reduced by approximately 20% compared to traditional split-type servos. The compact design perfectly fits various narrow installation spaces. The streamlined hardware structure greatly reduces external cables and assembly procedures, saving time and effort during installation and comprehensively lowering the total cost of ownership (TCO) throughout the equipment lifecycle.

- Integrated & All-in-one Design
- Time-saving, labor-saving & efficient assembly
- Suitable for various narrow installation spaces
- Reduce overall TCO (Total Cost of Ownership)

Approximate volume reduction **20** %

2 Robust Power Performance, Stable Heavy-Load Operation Unaffected by Harsh Conditions

The entire iSMD series comes standard with an S1 continuous duty cycle, enabling long-term, stable, full-load operation, thereby laying a solid foundation for prolonged equipment performance. It powerfully supports a 3x short-term overload capacity, with fast response and excellent acceleration/deceleration performance, effectively shortening equipment operation cycles and accelerating production processes, directly boosting overall output and operational efficiency.

S1 Continuous Duty

3X Short-time Overload Capacity

3 High-Precision Encoder Configuration, Accurate Positioning and Smoother Operation

Equipped with a high-performance magnetoelectric encoder (17-bit incremental/absolute encoding specifications, with up to 131,072 pulses per revolution) for maximized positioning accuracy. The high-end configuration features a 23-bit mechanical multi-turn absolute encoder, allowing battery-free, long-term latching of position data. Equipment restart requires no homing or origin seeking, eliminating tedious reset procedures and significantly saving debugging and start/stop time.

High-Performance Magnetoelectric Encoder

Cutaway Schematic

- 17-bit Incremental / Absolute Encoding Specification
- Up to 131072 Pulses Per Revolution
- 23-bit Mechanical Multi-turn Absolute Encoder

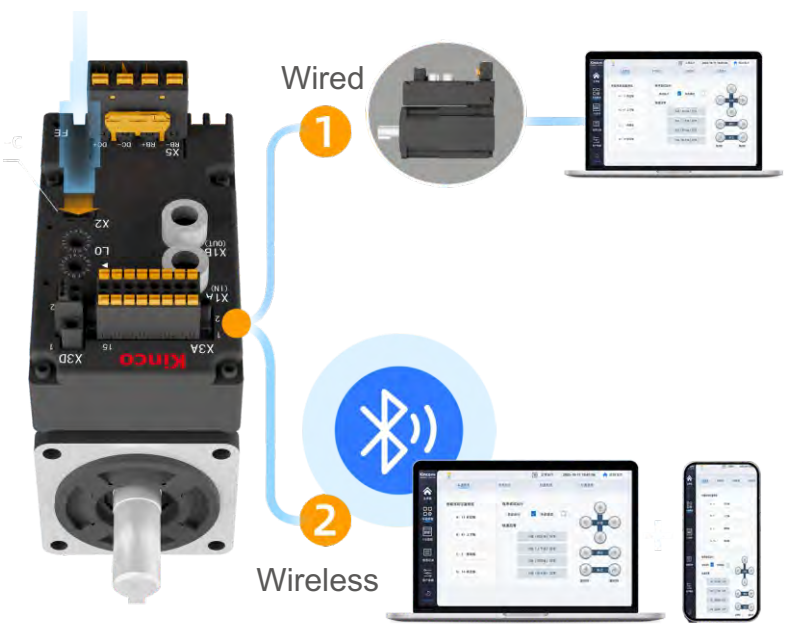
4 Full Support for Mainstream Fieldbuses, Seamless Compatibility with Various Control Systems

Supports mainstream industrial communication buses such as EtherCAT, Modbus, CANopen, and PROFINET. It offers a rich variety of interfaces, allowing rapid connection to various mainstream controllers on the market. The networking is flexible and convenient, easily adapting to multi-scenario coordinated control requirements in automated production lines.



5 Minimalist and Intelligent Debugging, Hassle-Free with Both Wired and Wireless Modes

Comes standard with a Type-C direct-connect debugging interface; a single cable connects to professional debugging software on a computer for easy operation. It features a built-in high-speed Bluetooth wireless debugging module, supporting wireless debugging via both mobile phone and computer, easily overcoming debugging challenges in complex scenarios such as high-altitude or mobile equipment, thereby doubling maintenance and debugging efficiency.



Seven Major Advantages

6 Certified with Authority, Ensuring Safety for Both Domestic and International Market Expansion

Several models feature the STO (Safe Torque Off) function (certification in progress), which can instantly cut off motor torque output in emergency situations. The independent safety control circuit is unaffected by main control system failures, functioning like a one-button emergency stop, comprehensively preventing production safety hazards and ensuring on-site operational safety.



UL



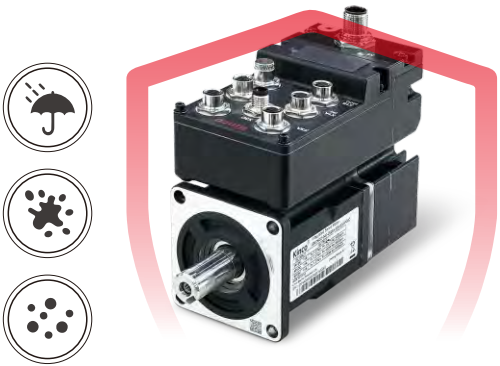
CE

Dual Safety Protection



7 High-Level IP65 Protection, Durable for Harsh Environments

The entire unit achieves an IP65 high protection rating, providing dust, water, and oil resistance. It is unaffected by harsh industrial environments such as dust, moisture, and humidity. With strong adaptability to various working conditions, it operates stably for long periods without damage, significantly extending the equipment's service life.



IP65

iSMD-IP20 series Parameter Table

Model parameter		iSMD60D-040-DQ■K-A▲-000 iSMD60D-040-DQ■K-EA-000 iSMD60D-040-DQ■K-PA-000	iSMD80D-075-DQ■K-A▲-000 iSMD80D-075-DQ■K-EA-000 iSMD80D-075-DQ■K-PA-000	iSMD80D-100-DQ■K-A▲-000 iSMD80D-100-DQ■K-EA-000 iSMD80D-100-DQ■K-PA-000
Input	Power supply	48VDC,10A Allowable fluctuation range 24V~60V	48VDC,17A Allowable fluctuation range 24V~60V	48VDC,24A Allowable fluctuation range 24V~60V
	Logic power	Not support STO function mode:24VDC, with fuse 60V@0.5A Supports STO function model:24V, logic power is isolated power supply, isolation voltage 500VDC		
complete machine	Max continuous output current(Arms)	10	16.2	21.2
	Peak current(Peak)	48AP	100AP	100AP
	Rated power Pn(W)	400	750	1000
	Rated speed n _n (rpm)	3000	3000	3000
	Max speed n _m (rpm)	4000	4000	3500
	Max torque T _n (Nm)	1.27	2.39	3.18
	Max torque T _m (Nm)	3.81	7.17	9.54
	Rotary inertia Jm(Kg·cm ²)	0.48	1.66	2.27
		0.49 (With brake)	1.72 (With brake)	2.33 (With brake)
	Brake holding torque (Nm)	2	4	4
	Brake rated power (W)	7.6	11.5	11.5
	Brake rated voltage (VDC)	24	24	24
Duty		S1 (Continuous duty), based on the measured value of SMK60D_400W and SMK80D_750W; S3 (60%-10min), based on the measured value of iSMD_1000W		
Energy consumption brake		Need external brake resistance (iSMD60D≥5Ω/100W;iSMD80D≥5Ω/400W)		
Energy consumption brake voltage absorption point		63V±2V(default)		
Overvoltage alarm voltage		68V±2V(default)		
Undervoltage alarm voltage		16V±2V(default)		
Cooling mode		Natural cooling		
Input specification	Digital input	3-channel DI, Common COM1 port, High level :12.5V~30VDC, Low level: 0~5VDC,Max frequency : 1KHz Min turn-on voltage<11V,Max cut-off voltage>5V,Max input voltage:30V, Complies with IEC61131-2 Type3, DI2 support probe function, Response time ≤10uS,Input impedance:5.1K		
	Pulse input	2-channel pulse input,Pulse+direction, CCW+CW,phase A+phase B (12V~24V),Max frequency:500KHz It can be multiplexed as 2-channel DI (DI4 and DI5) by software setting Min turn-on voltage<11V,Max cut-off voltage>5V,Max input voltage:30V,Complies with IEC61131-2 Type3		
	Analog input	iSMD_AA/AS model:1-channel voltage type analog input, 12bit,-10V~+10V,differential connection method		
Output specification		2-channel DO, open collector output, Max control voltage:30V, Max load current:100mA		
Type-C		Debug special, can use Kinco PC software connection		
STO		Applicable to models that support STO function;2-channel STO, STO interface can be connected with the safety controller, safety switch, safety sensor, etc., to realize the safety function of the driver.Input voltage range:24VDC±15%,Input current:2.3mA(Type),Logic level standard:IEC61131-2 Type1.Input resistance:10kOhm		
function	Bus	Modbus/RS485 It supports a maximum of 115200bps and can communicate with the controller using Modbus RTU		
		CANopen It supports a maximum of 1Mbps and can communicate with the controller using the CANopen		
		EtherCAT Support CoE(CiA402 protocol)and CSP/CSV/PP/PV/PT/HM mode,communication speed 100Mbps		
		PROFINET Non periodic parameter read and write; Message 1, message 3, message 5, message 9, message 102, message 105, message 111 Support IRT synchronous mode;Support absolute value encoder;Support DSC dynamic servo control		
environment	Use	Working temperature -20℃ ~ +40℃		
		Storage temperature Short term storage (within 1 month): -20℃~+65℃ Long term storage (over 1 month):-10℃ ~ +55℃		
		Protection class IP20		
		Installation site Dust-free, dry, lockable		
		Installation method Motor flange installation		
		Altitude Less than 3000m,power derating 1.5%/100m between 1000m and 3000m		
		Atmospheric 67kpa~106kpa		

Note:

■ = A:Without brake ▲ = A:Without STO
=B:With brake = S:With STO

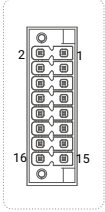
iSMD_IP65 series Parameter Table

Model parameter		iSMD60D-040-DQ■K-E▲-000-PXXX	iSMD80D-075-DQ■K-E▲-000-PXXX
Input	Power supply	48VDC,10A Allowable fluctuation range 24V~60V	48VDC,17A Allowable fluctuation range 24V~60V
	Logic power	Not support STO function mode:24VDC, with fuse 60V@0.5A Supports STO function model:24V, logic power is isolated power supply, isolation voltage 500VDC	
complete machine	Max continuous output current(Arms)	10	16.2
	Peak current(Peak)	48AP	100AP
	Rated power Pn(W)	400	750
	Rated speed n _n (rpm)	3000	3000
	Max speed n _n (rpm)	4000	4000
	Max torque T _n (Nm)	1.27	2.39
	Max torque T _m (Nm)	3.81	7.17
	Rotary inertia Jm(Kg·cm ²)	0.48	1.66
		0.49 (With brake)	1.72 (With brake)
	Brake holding torque (Nm)	2	4
	Brake rated power (W)	7.6	11.5
	Brake rated voltage (VDC)	24	24
Duty		S1 (Continuous duty), based on the measured value of SMK60D_400W and SMK80D_750W ; S3 (60%-10min), based on the measured value of iSMD_1000W.	
Energy consumption brake		Need external brake resistance module (Model: PRC-69-40-20)	
Energy consumption brake voltage absorption point		63V±2V(default)	
Overvoltage alarm voltage		68V±2V(default)	
Undervoltage alarm voltage		16V±2V(default)	
Cooling mode		Natural cooling	
Digital input		4-channel DI, can be configured with source/sink input, High level :12.5V~30VDC, Low level: 0~5VDC, Max frequency : 1KHz	
		Min turn-on voltage<11V, Max cut-off voltage>5V, Max input voltage:30V;	
		DI2 ,DI3 support probe function, Response time ≤10uS,complies with IEC61131-2 Type3,Input impedance: 2.7K	
Output specification		2-channel digital output, software can set active/passive output . For active output, external 24V logic power supply needs to be connected to the power socket terminal (X5).	
		DO1 load current : 200mA, DO2 load current : 100mA, Max control voltage : 30V	
Type-C		Debug special, can use Kinco PC software connection	
STO		Applicable to models that support STO function;	
		2-channel STO, STO interface can be connected with the safety controller, safety switch, safety sensor, etc., to realize the safety function of the driver	
		Input voltage range:24VDC±15%, Input current:2.3mA(Type), Logic level standard :IEC61131-2 Type1	
		Input resistance:10kOhm	
Bus function	EtherCAT	Support CoE(CIA402 protocol)and CSP/CSV/PP/PV/PT/HM mode, communication speed 100Mbps	
	PROFINET	Non periodic parameter read and write;	
		Message 1, message 3, message 5, message 9, message 102, message 105, message 111;	
		Support IRT synchronous mode;	
		Support absolute value encoder;	
		Support DSC dynamic servo control	
Use environment	Working temperature	-20℃ ~ +40℃ Short term storage (within 1 month): -20℃~+65℃.	
	Storage temperature	Long term storage (over 1 month): -10℃ ~ +55℃	
	Protection class	IP65, shaft end (excluding oil seal) IP54	
	Installation site	Dust-free, dry, lockable	
	Installation method	Motor flange installation	
	Altitude	Less than 3000m,power derating 1.5%/100m between 1000m and 3000m	
Atmospheric		67kpa~106kpa	

Note: ■ = A: Without brake
B: With brake
▲ = A: Without STO
S: With STO

iSMD_IP20 series interface definition

Communication interface



interface	Pin	signal	Description
X1 F8CVM-THR-3.5-16P-7-L30	1	CANH	CAN high-level signal line
	2		
	3	CANL	CAN low-level signal line
	4		
	5	GNDC	CAN signal ground
	6		
	7	RS485A	Data send/receive
	8		
	9	RS485B	Data send/receive
	10		
	11	GNDR	485 signal ground
	12		
	13	5VAUX	Internal 5V DC power supply output, voltage range 4.5 ~ 5.5V, Max output 500mA, only for use with photoelectric sensors ※
	14	GNDAUX	Internal 5V DC power supply output reference ground
	15	24VAUX	Internal 24V DC power supply output, voltage range 23 ~ 25V, Max output 500mA, only for use with photoelectric sensors ※
	16	GNDAUX	Internal 24V DC power supply output reference ground

Note: 1. Applied to iSMD_AA/AS models;
2. The auxiliary power supply output type depends on the model, please consult local sales for specific information

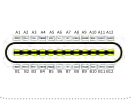
Communication interface



interface	Pin	signal	Description
X1A(IN) X1B(OUT) EtherCAT&PROFINET M8-S4D-PTT	1	TD+	Send data +
	2	RD+	Receive data+
	3	TD-	Send data -
	4	RD-	Receive data -
	Shell	Shielded	Connect to the integrated motor shell

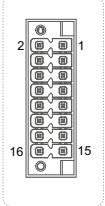
Note: 1. Applied to iSMD_EA/PA models;
2. Kinco M8PD4-RJ45-LL-F, M8PD4-M8PD4-LL-F and M8SD4-M8PD4-LL-F external cable can be purchased

PC debugging interface



interface	Pin	signal	Description
X2 TYPE-C	A4/ B4	VBUS	USB input power supply
	A9/B9	VBUS	
	A1/B1	GND	
	A12/B12	GND	Differential data signal
	A6/B6	DP+	
	A7/B7	DP-	
	Shell	Shielded	-

IO interface and battery interface



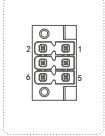
interface	Pin	signal	Description
X3A IO interface F8CVM-THR-3.5-16P-A-L30	1	AI1+	1-channel voltage type analog input, 12bit, -10V~-+10V, differential connection method. Note: Applicable to iSMD_IP20_AA/AS models
	2	AI1-	
	3	PUL+	
	5	PUL-	Pulse+direction, CCW+CW, phase A+phase B (12V~24V) Max frequency:500KHz
	7	DIR+	Min turn-on voltage<11V, Max cut-off voltage>5V, Max input voltage:30V,It can be multiplexed as 2-channel DI (DI4 and DI5) by software setting
	9	DIR-	
	4	COMI	Input common terminal
	6	DI1	3-channel DI, Common COMI port, High level : 12.5V~30VDC, Low level: 0~5VDC, Max frequency : 1KHz , Min turn-on voltage<11V, Max cut-off voltage>5V, Max input voltage:30V, DI2 can be configured for probe function, Response time ≤10 uS,Input impedance: 5.1K
	8	DI2 (Fast)	
	10	DI3	
	11	DO1+	Open collector output, Max control voltage:30V, Max load current:100mA
	12	DO1-	
	13	DO2+	
	14	DO2-	24V DC logical power input.voltage range +18 ~ 30V, maximum input current 1A
	15	24VS	
	16	GNDS	24V DC logic power input reference ground

Note:1. DIR and PUL can be multiplexed as DI4 and DI5 through software settings(20101E address). 0: Pulse mode (factorydefault), 1: DI mode
2. Analog signal only exist in iSMD_AA/AS模型 model

X3D Battery interface F8A-1M-3.5-02P-A	1	BAT+	Battery positive
	2	BAT-	Battery negative

Note: X3D is only applicable to multi-turn magneto-electric encoder model. Kinco accessories BAT-iSMD can be purchased.

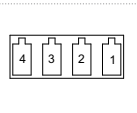
STO interface



interface	Pin	signal	Description
X4 STO interface F8CVM-THR-3.5-06P-4-L30	1	STOA+	STO safety interface A, input voltage range 24VDC ± 15% Input current: 2.3mA (Type) Logic level standard: IEC61131-2 Type1 Input impedance: 10kOhm
	2	STOA-	
	3	STOB+	STO safety interface B, input voltage range 24VDC ± 15% Input current: 2.3mA (Type) Logic level standard: IEC61131-2 Type1 Input impedance: 10kOhm
	4	STOB-	
	5	24V	Internal 24V DC power supply output, voltage range 18~ 30V, maximum output current 100mA, only for STO use.
	6	GND	Internal 24V DC power supply output reference ground

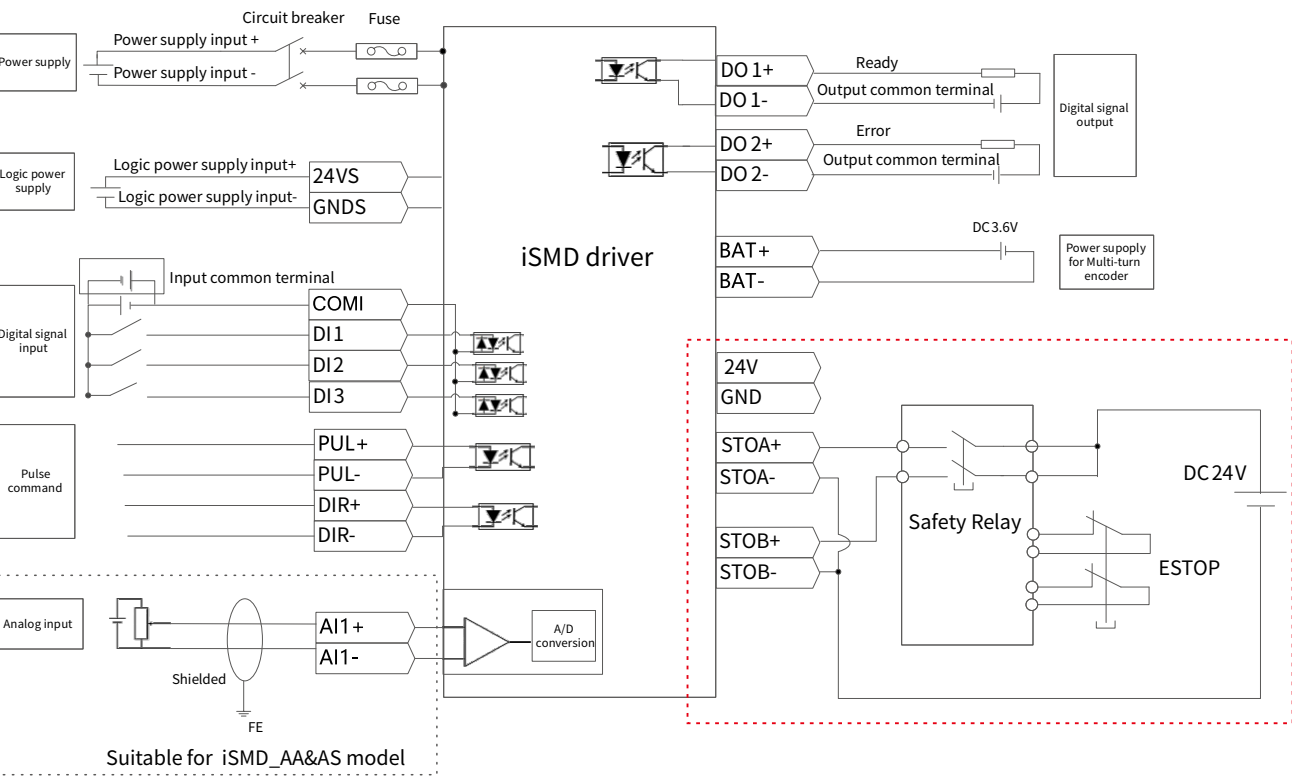
Note: Applied to iSMD60D&iSMD80D-AS model

Power supply and braking resistor interface



interface	Pin	signal	Description
X5 F9CP-7-7.5-04P-A	1	RB-	External brake resistance input
	2	RB+	
	3	DC-	Power supply input
	4	DC+	

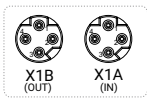
iSMD_IP20 series electrical wiring diagram



Note: iSMD_IP20 does not support STO function models, ignore the red box content.

iSMD_IP65 series interface definition

Communication interface



interface	Pin	signal	Description
X1A(IN) X1B(OUT) EtherCAT&PROFINET M8-S4D-PTT	1	TD+	Send data +
	2	RD+	Receive data+
	3	TD-	Send data -
	4	RD-	Receive data -
Shell	Shielded		Connect to the integrated motor shell

Note: Kinco M8PD4-RJ45-LLF, M8PD4-M8PD4-LL-F and M8SD4-M8PD4-LL-F external cable can be purchased

PC debugging interface

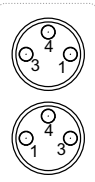


interface	Pin	signal	Description
X2 TYPE-C	A4&B4	VBUS	USB input power supply
	A9&B9	VBUS	
	A1&B1	GND	
	A12&B12	GND	Differential data signal
	A6&B6	DP+	
	A7&B7	DP-	
Shell	Shielded		-

IO interface and battery interface



interface	Pin	signal	Description
X3A DI interface M8-S4A-GPFM11	1	24V	Internal 24V DC power supply output, voltage range 18~ 30V, maximum output current 200mA, only for digital input use.
	2	DI1	Digital input 1, which can be configured as NPN/PNP input
	3	DI2	Digital input 2, which can be configured as NPN/PNP input and can be configured as a probe input
	4	GND	Internal 24V DC power supply output reference ground; When not connected to logic power, it is the sink type common terminal
Shell	Shielded		Connect to the integrated motor shell
X3B DI interface M8-S4A-GPFM11	1	24V	Internal 24V DC power supply output, voltage range 18~ 30V, maximum output current 200mA, only for digital input use.
	2	DI3	Digital input 3, which can be configured as NPN/PNP input and can be configured as a probe input
	3	DI4	Digital input 4, which can be configured as NPN/PNP input
	4	GND	Internal 24V DC power supply output reference ground; When not connected to logic power, it is the sink type common terminal
Shell	Shielded		Connect to the integrated motor shell



interface	Pin	signal	Description
X3C DO interface M8-S3A-GPFM11	1	DO1	2-channel digital output, software can set active/passive output . For active output, external 24V logic power supply needs to be connected to the power socket terminal (X5). DO1 load current : 200mA, DO2 load current : 100mA, Max control voltage : 30V
	3	DO2	
	4	COMO	Output common terminal
	Shell	Shielded	Connect to the integrated motor shell
X3D Battery interface M8-P3A-GPFM11	1	BAT+	Battery positive
	3	BAT-	Battery negative
	4	/	
	Shell	Shielded	Connect to the integrated motor shell

Note: X3D is only applicable to multi-turn magneto-electric encoder model. Kinco accessories BAT-iSMD-P can be purchased.
Note: For the iSMD_IP65 model, the DI/DO mode is selected through software settings. 20101D set the DO output (0:no power output ,default value;1:Power output). 20101F set the DI input (0 : PNP input ,default value; 1:PNP input)

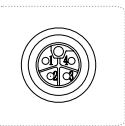
STO interface



interface	Pin	signal	Description
X4 STO M8-S6A-GPFM11	1	24VS	Internal 24V DC power supply output, voltage range 18~ 30V, maximum output current 100mA, only for STO use
	2	GND	Internal 24V DC power supply output reference ground
	3	STOA-	STO safety interface A, input voltage range 24VDC ± 15%; input current: 2.3mA (Type)
	4	STOA+	Logic level standard: IEC61131-2 Type1; input impedance: 10kOhm
	5	STOB+	STO safety interface B, input voltage range 24VDC ± 15%; input current: 2.3mA (Type);
	6	STOB-	Logic level standard: IEC61131-2 Type1; input impedance: 10kOhm
Shell	Shielded		Connect to the integrated motor shell

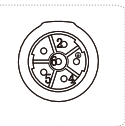
Note: Kinco accessories M8-P6A-MWO can be purchased.

Power supply and power interface



interface	Pin	signal	Description
X5Power supply and power interface M12-P51-GTFM6	1	GNDS	24V DC logic power input reference ground
	2	24VS	24V DC Logical power input.voltage range 18 ~ 30V, maximum input current 1A
	3	DC-	Connect the power supply
	4	DC+	
Shell	Shielded		Connect to the integrated motor shell

Note: Applicable to iSMD60D aviation plug models



interface	Pin	signal	Description
X5Power supply and power interface M923-P6-GCL	1	GNDS	24V DC logic power input reference ground
	2	24VS	24V DC Logical power input.voltage range 18 ~ 30V, maximum input current 1A
	4	DC+	Connect the power supply
	5	DC-	
Shell	Shielded		Connect to the integrated motor shell

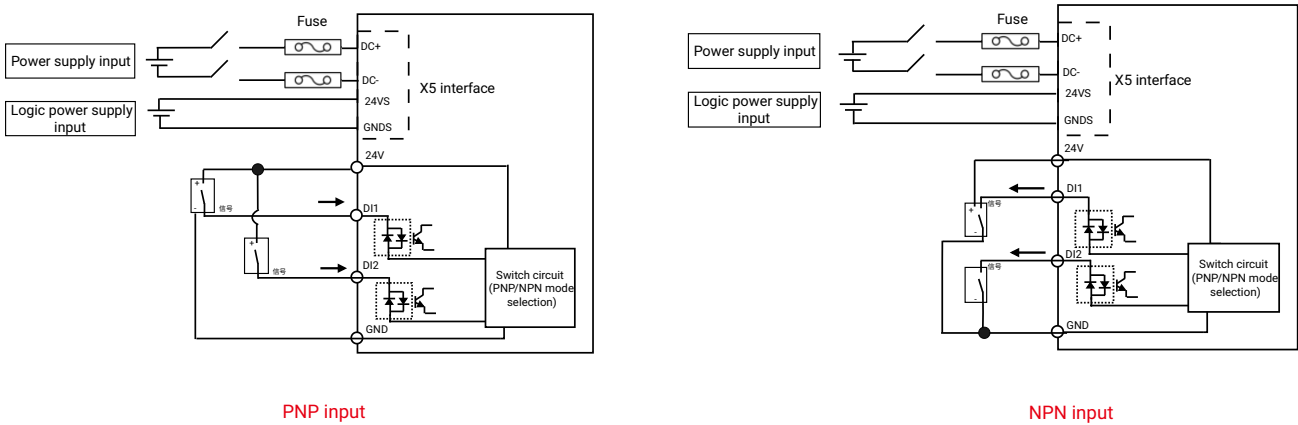
Note: Applicable to iSMD80D aviation plug models

iSMD_IP65 series electrical wiring diagram

Digital input and output electrical wiring diagram

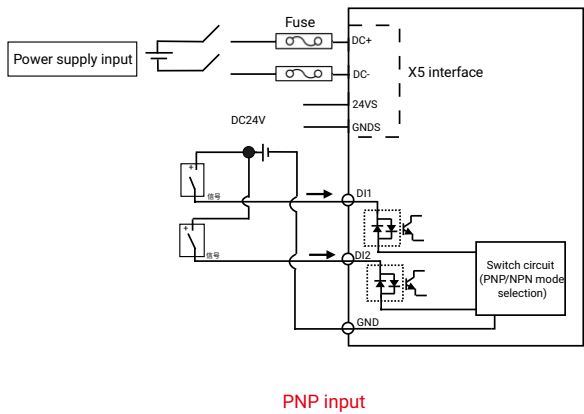
1、X5 interface is connected to a logic power supply:Digital input electrical wiring diagram

The input interface can support PNP input type device and NPN input type device.
When in use, the input type needs to be selected through software setting and correctly connect the wire:
When the external device is PNP input type, 20101F (DI input mode) need to be set to 0 (PNP mode) in the software.
When the external device is NPN input type, 20101F (DI input mode) need to be set to 1 (NPN mode) in the software.
Note: 24V and GND are the logic power output



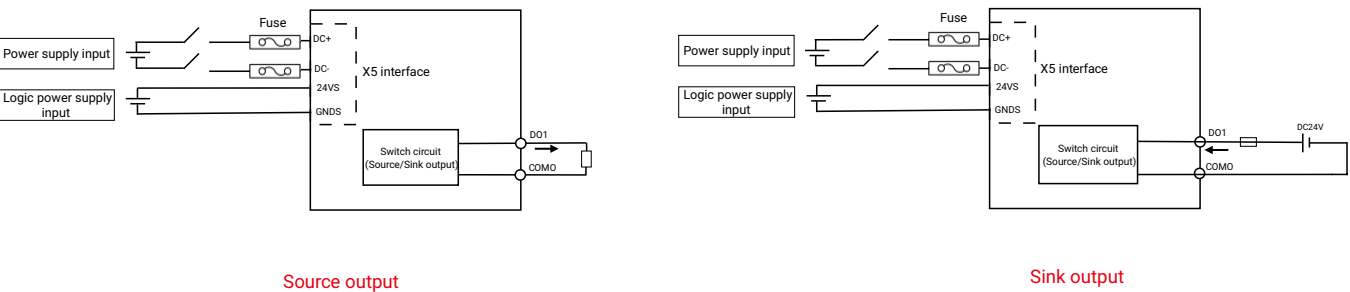
2、X5 interface is not connected to the logic power supply:Digital input electrical wiring diagram

The input interface only supports PNP input type device. User need to set 20101F (DI input mode) to 0 (PNP mode) in the software.



3、X5 interface is connected to a logic power supply:Digital output electrical wiring diagram

The output interface can support source output type and sink output type. When in use, the input type needs to be selected through software setting and correctly connect the wire:
When a sink output connection is required, 20101D (DO output mode) need to be set to 0 (sink output) in the software.
When a source output connection is required, 20101D (DO output mode) need to be set to 1 (source output) in the software.

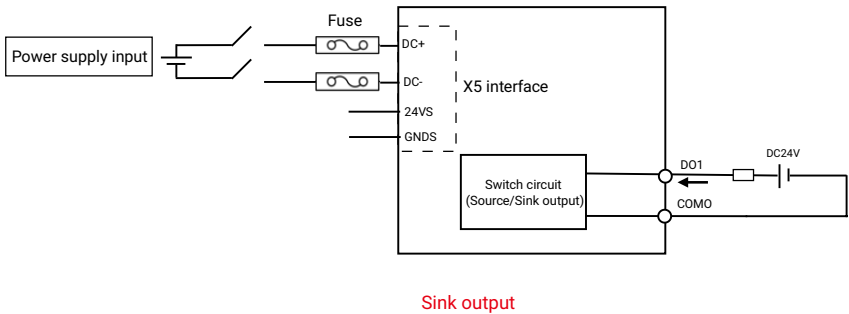


iSMD_IP65 series electrical wiring diagram

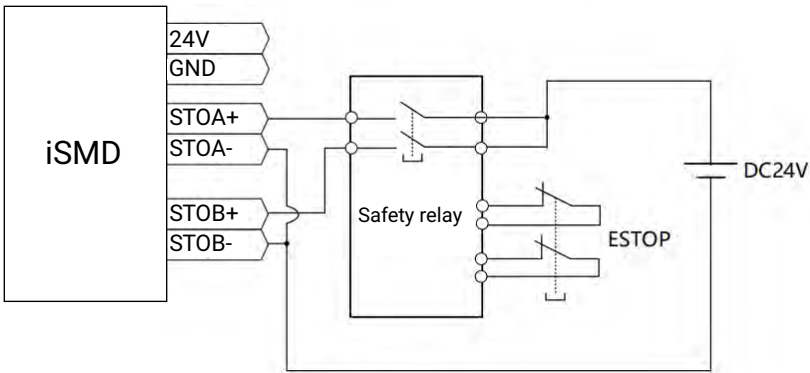
Digital input and output electrical wiring diagram

4、X5 interface is not connected to the logic power supply:Digital output electrical wiring diagram

The output interface only supports sink output connection, 20101D (DO output mode) need to be set to 0 (sink output) in the software.



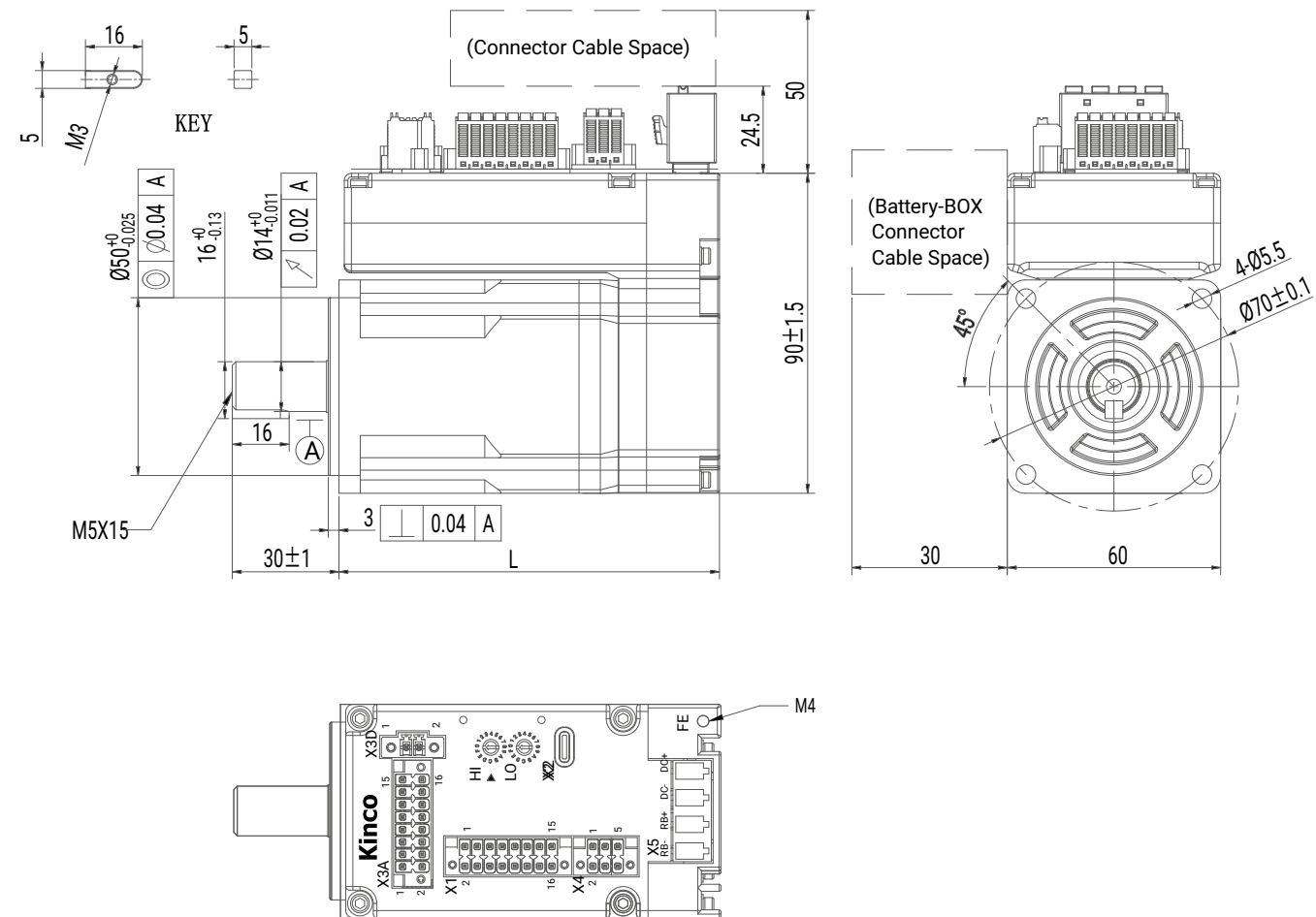
STO electrical wiring diagram



iSMD high-performance integrated servo drive motor

■ iSMD_IP20 series mechanical dimensions

iSMD60D_AA&AS (unit:mm)

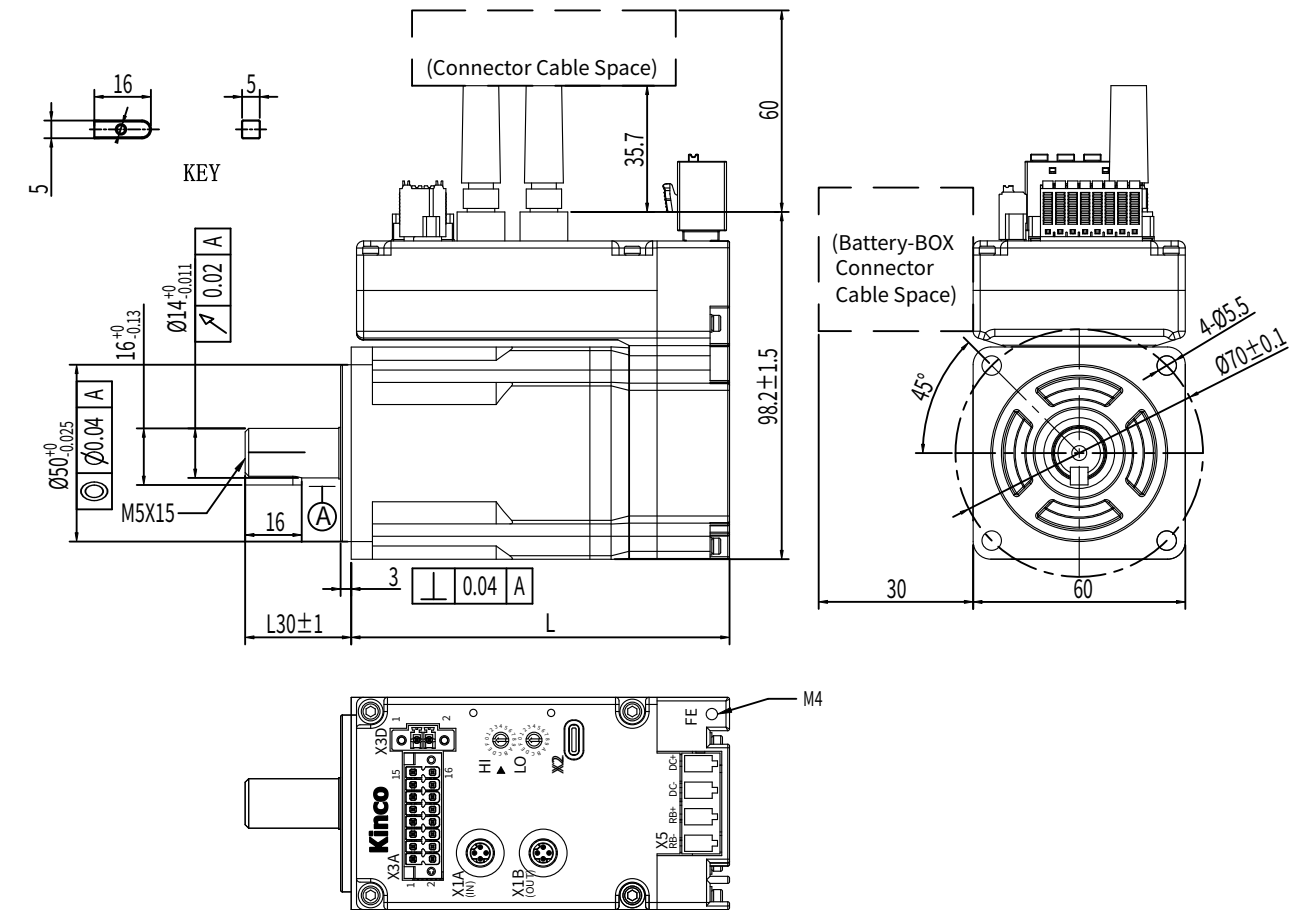


Note:iSMD60D-AA model without X4 port.

iSMd high-performance integrated servo drive motor

- iSMD_IP20 series mechanical dimensions

iSMD60D_EA&PA (unit:mm)



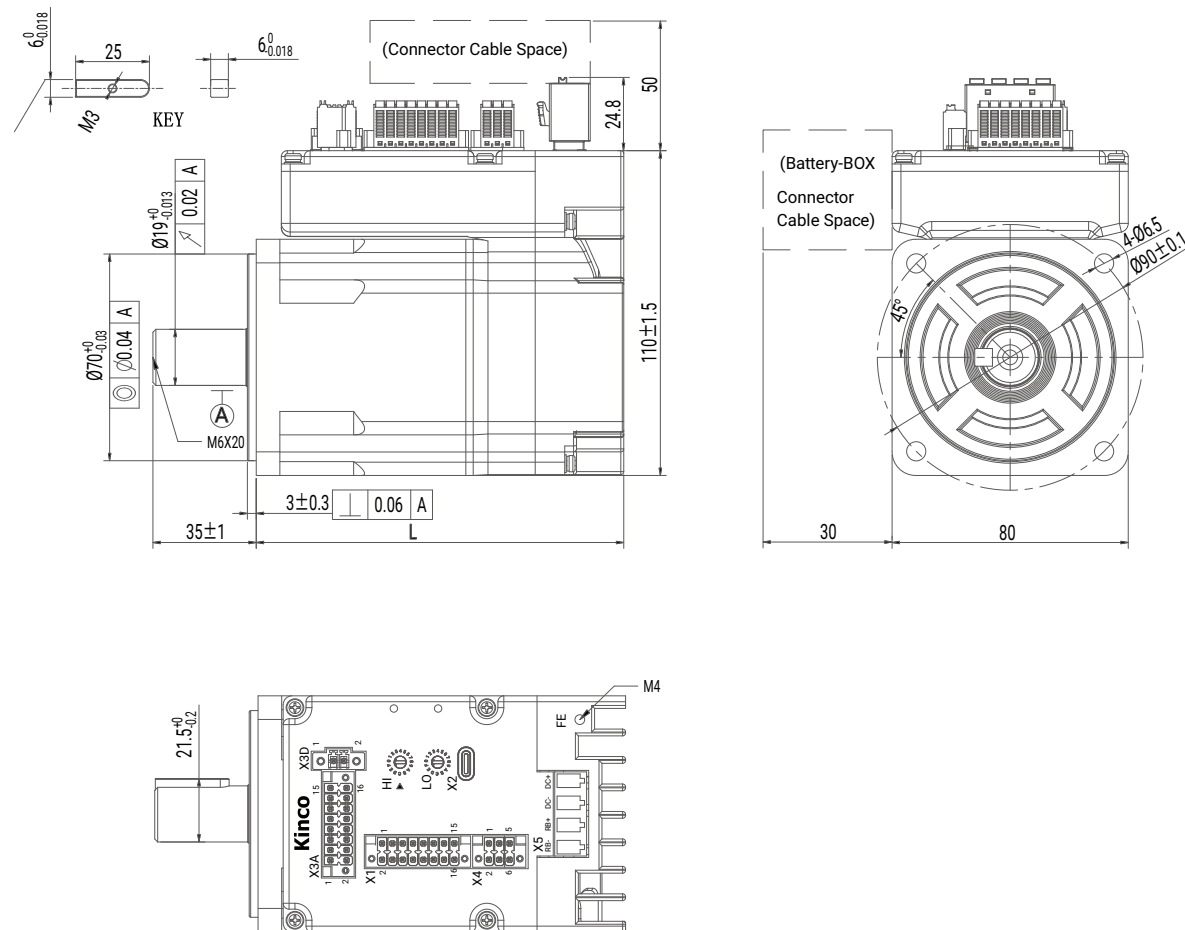
Note: iSMD60D-PA model without rotary dial switch

iSMD60D	With brake	Approx weight (Kg)	Dimension L (mm)
iSMD60D-040-DQAK-A▲-000		1.4	107±1.5
iSMD60D-040-DQAK-EA-000			
iSMD60D-040-DQAK-PA-000			
iSMD60D-040-DQBK-A▲-000	✓	1.8	140.5±1.5
iSMD60D-040-DQBK-EA-000			
iSMD60D-040-DQBK-PA-000			

iSMD high-performance integrated servo drive motor

■ iSMD_IP20 series mechanical dimensions

iSMD80D_AA&AS (unit:mm)

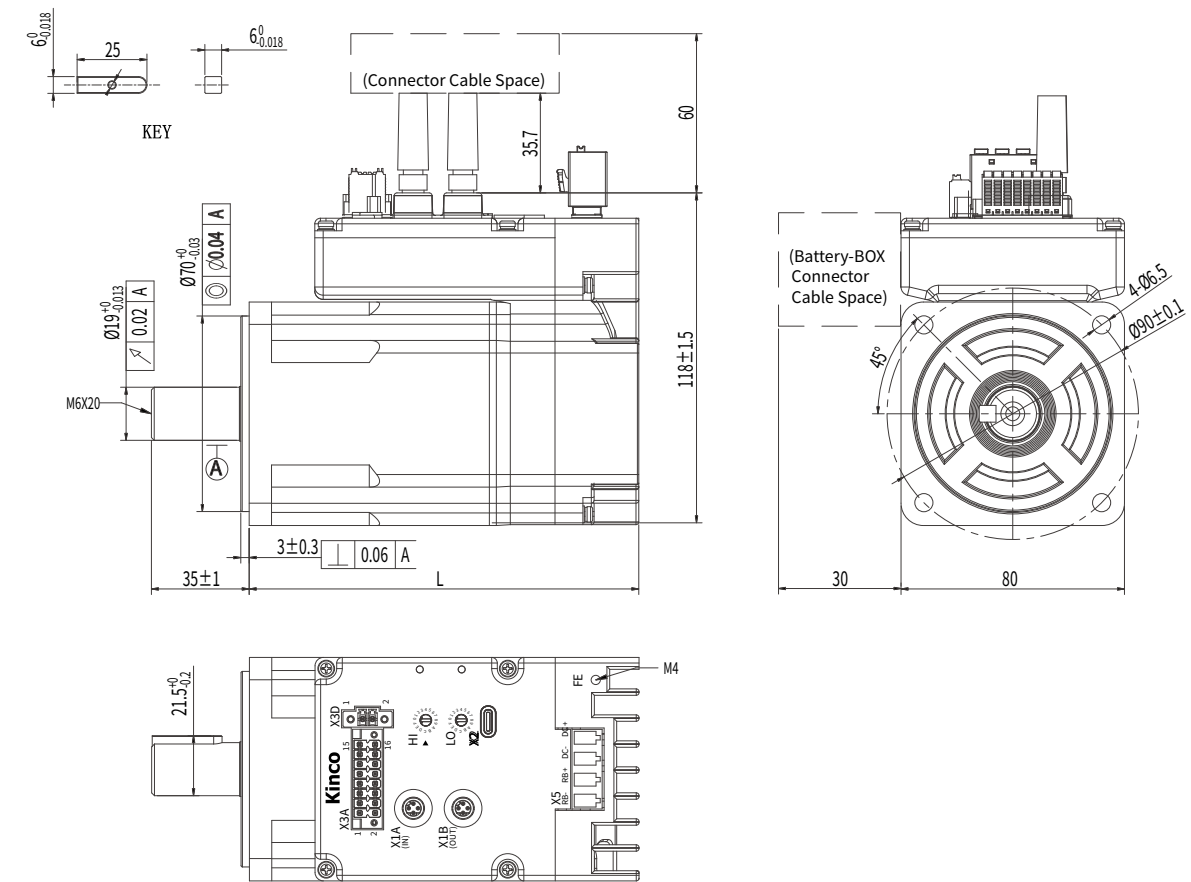


Note:iSMD80D-AA model without X4 port.

iSMd high-performance integrated servo drive motor

- iSMD_IP20 series mechanical dimensions

iSMD80D_EA&PA(unit:mm)



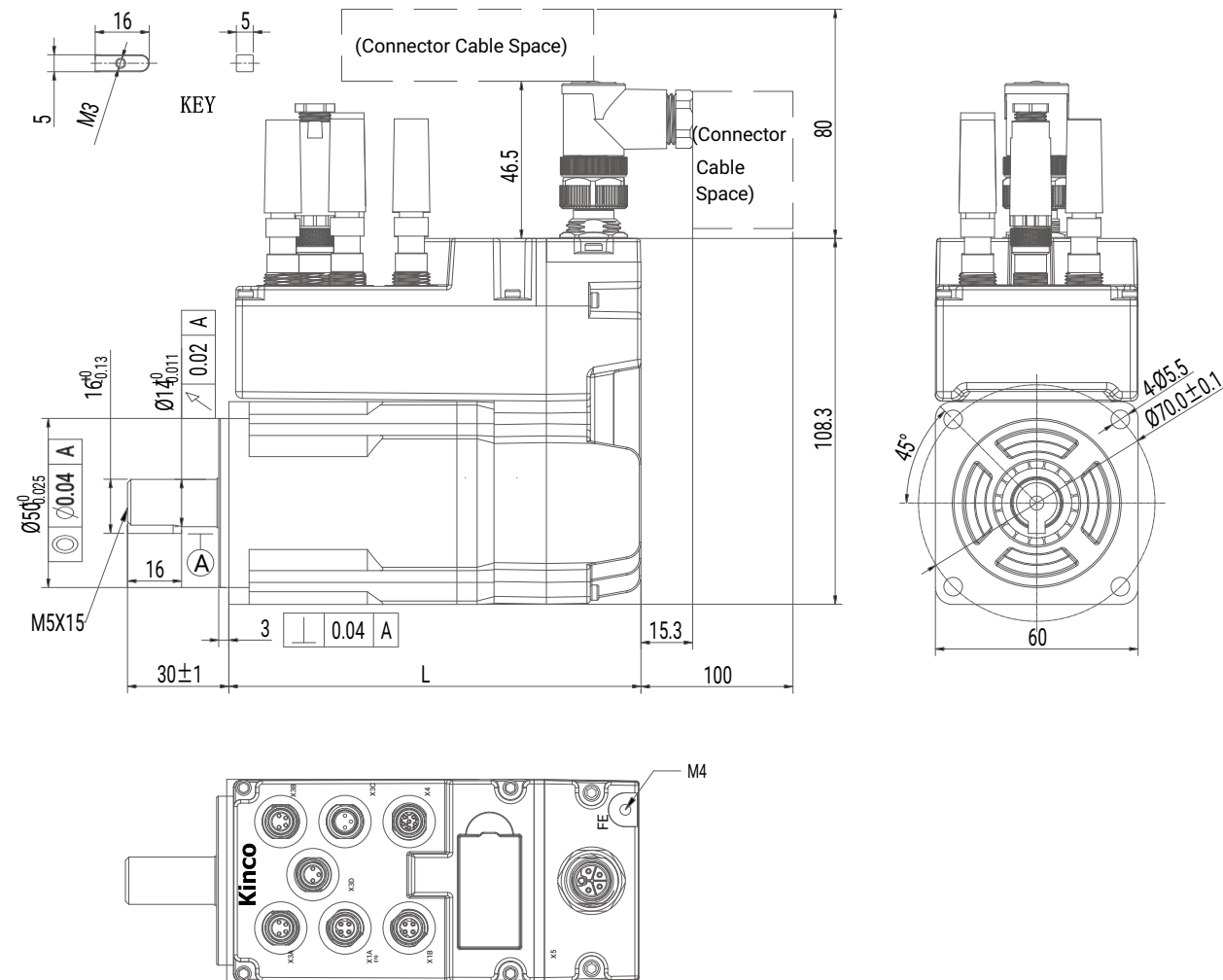
Note: iSMD80D-PA model without rotary dial switch

iSMD80D	With brake	Approx weight (kg)	Dimension L (mm)
iSMD80D-075-DQAK-A▲-000			
iSMD80D-075-DQAK-EA-000		2.4	124.5±1.5
iSMD80D-075-DQAK-PA-000			
iSMD80D-075-DQBK-A▲-000			
iSMD80D-075-DQBK-EA-000	✓	3.1	157.5±1.5
iSMD80D-075-DQBK-PA-000			
iSMD80D-100-DQAK-A▲-000			
iSMD80D-100-DQAK-E▲-000		2.9	139.5±1.5
iSMD80D-100-DQAK-PA-000			
iSMD80D-100-DQBK-A▲-000			
iSMD80D-100-DQBK-E▲-000	✓	3.6	172.5±1.5
iSMD80D-100-DQBK-PA-000			

iSMD high-performance integrated servo drive motor

■ iSMD_IP65 series mechanical dimensions

iSMD60D (unit:mm)



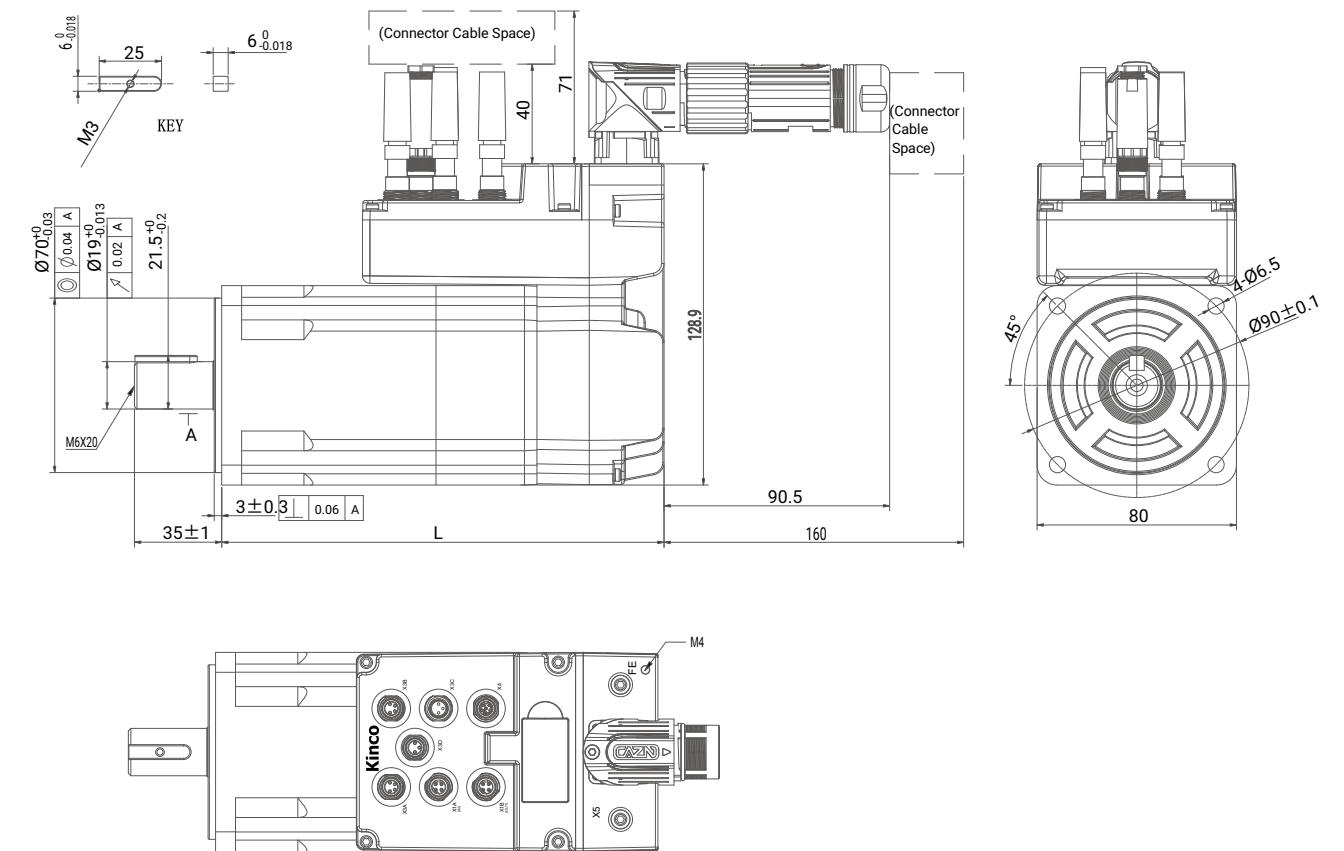
Note: iSMD60D-EA model without X4 port.

iSMD60D	With brake	Approx weight (kg)	Dimension L (mm)
iSMD60D-040-DQAK-E▲-000-P000		1.6	122±1.5
iSMD60D-040-DQBK-E▲-000-P000	✓	2	155.5±1.5

iSMd high-performance integrated servo drive motor

- iSMD_IP65 series mechanical dimensions

iSMD80D (unit:mm)



Note: iSMD80D-EA model without X4 port.

iSMD80D	With brake	Approx weight (kg)	Dimension L (mm)
iSMD80D-075-DQAK-E▲-000-P000		2.8	129.5±1.5
iSMD80D-075-DQBK-E▲-000-P000	✓	3.7	162.5±1.5

iSMD Accessory Selection Guide(Table 1)

iSMD Frame Terminal				Mating terminal Model
Interface	iSMD Model	Model	Interface Image	
X1 Communication interface	iSMD_AA/AS_IP20	Socket: F8CVM-THR-3.5-16P-7-L30		Plug:F7GM-3.5-16P-7
	iSMD_EA/ES/PA/PS	Aviation socket:M8-S4D-PTT		Aviation plug:M8-P4D-PWA05
X2 TYPE-C USB communication interface	iSMD	TYPE-C Female		/
X3A IO interface	iSMD_IP20	Socket: F8CVM-THR-3.5-16P-7-L30		Plug:F7GM-3.5-16P-7
X3D Battery interface		Socket:F8A-1M-3.5-02P-A		Plug:F7EMM-3.5-02P-A-100
X3A DI interface	iSMD_IP65	Aviation socket:M8-S4A-GPFM11		Aviation plug:M8-P4A-PLA05
X3B DI interface				
X3C DO interface		Aviation socket:M8-S3A-GPFM11		Aviation plug:M8-P3A-PLA05
X3D Battery interface		Aviation socket:M8-P3A-GPFM11		Aviation plug:M8-S3A-PLA05
X4 STO interface	iSMD_AS/ES/PS_IP20	Socket: F8CVM-THR-3.5-06P-4-L30		Plug:F7GM-3.5-06P-4
	iSMD_ES/PS_IP65	Aviation socket:M8-S6A-GPFM11		Aviation plug:M8-P6A-PWA05
X5 Power supply and power interface	iSMD_IP20	Socket:F9CP-7-7.5-04P-A		Plug:F9AP-7.5-04P-A
X5 Power supply and power interface	iSMD60D_IP65	Aviation socket: M12-PSL-GWFM16		Aviation plug:M12-S5L-PLDP9
	iSMD80D_IP65	Aviation socket:M923-P6-GCL		Aviation plug:M923-S6-GCA15
Accessory kit	iSMD_AA/EA/PA	iSMD60-IP65-package	/	/
	iSMD_AS/ES/PS	iSMD60-IP65-STO-package	/	/

iSMD Accessory Selection Guide(Table 2)

Modle	Battery box (with battery) Modle	Communication Cable (X1)		
		iSMD-->PLC	iSMD-->iSMD	iSMD-->iSMK
iSMD_IP20	BAT-iSMD	M8PD4-RJ45-LL-F (M8 male - RJ45)	M8PD4-M8PD4-LL-F (M8 male -M8 male)	M8SD4-M8PD4-LL-F (M8 male -M8 female or M8 female- M8 male)
iSMD_IP65	BAT-iSMD-P			

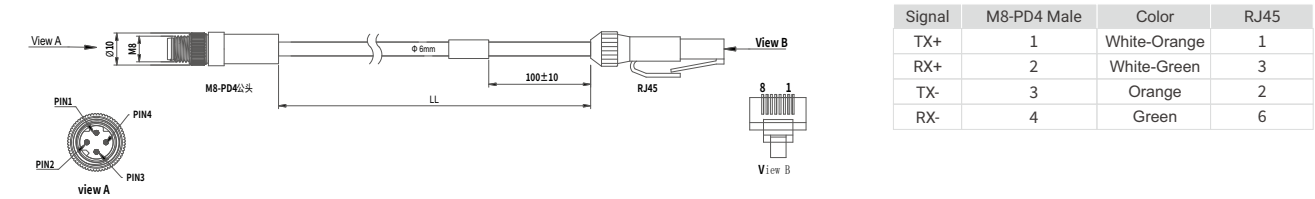
iSMD Model List

Description	STO	Communication	Model
Ip20 (Battery) multi-turn	\	CANopen	iSMD60D-040-DQAK-AA-000
			iSMD60D-040-DQBK-AA-000
			iSMD80D-075-DQAK-AA-000
			iSMD80D-075-DQBK-AA-000
			iSMD80D-100-DQAK-AA-000
			iSMD80D-100-DQBK-AA-000
		EtherCAT	iSMD60D-040-DQAK-EA-000
			iSMD60D-040-DQBK-EA-000
			iSMD80D-075-DQAK-EA-000
			iSMD80D-075-DQBK-EA-000
			iSMD80D-100-DQAK-EA-000
			iSMD80D-100-DQBK-EA-000
		PROFINET	iSMD60D-040-DQAK-PA-000
			iSMD60D-040-DQBK-PA-000
			iSMD80D-075-DQAK-PA-000
			iSMD80D-075-DQBK-PA-000
			iSMD80D-100-DQAK-PA-000
			iSMD80D-100-DQBK-PA-000
	STO	CANopen	iSMD60D-040-DQAK-AS-000
			iSMD60D-040-DQBK-AS-000
			iSMD80D-075-DQAK-AS-000
			iSMD80D-075-DQBK-AS-000
			iSMD80D-100-DQAK-AS-000
			iSMD80D-100-DQBK-AS-000
\	EtherCAT	iSMD80D-100-DQAK-ES-000	
		iSMD80D-100-DQBK-ES-000	
		iSMD60D-040-DQAK-EA-000-P000	
		iSMD60D-040-DQBK-EA-000-P000	
		iSMD80D-075-DQAK-EA-000-P000	
		iSMD80D-075-DQBK-EA-000-P000	
		iSMD60D-040-DQAK-ES-000-P000	
		iSMD60D-040-DQBK-ES-000-P000	
STO		iSMD80D-075-DQAK-ES-000-P000	
		iSMD80D-075-DQBK-ES-000-P000	

■ EtherCAT&Profinet communication interface X1 cable

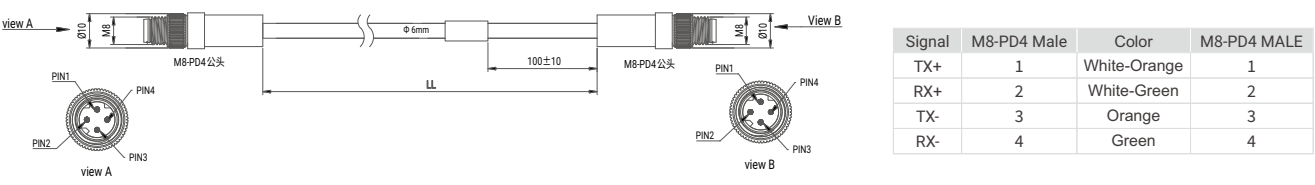
■ M8PD4-RJ45-LL-F

Wire spec:2P*26AWG,Shielding, drag chain 10 million times
Optional line length:0.5m,1.5m,3m,5m



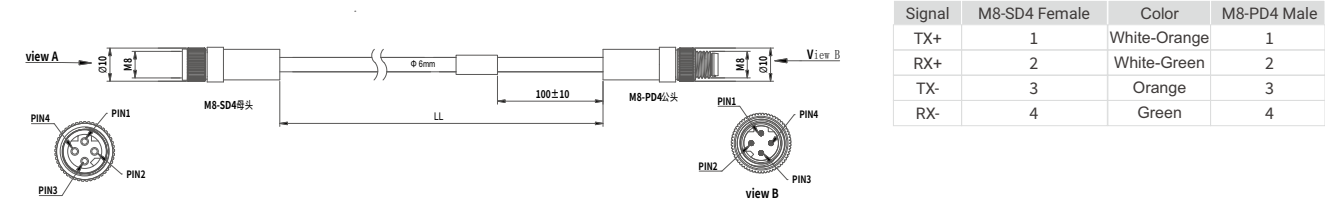
■ M8PD4-M8PD4-LL-F

Wire spec:2P*26AWG,Shielding, drag chain 10 million times
Optional line length:0.5m,1.5m,3m,5m



■ M8SD4-M8PD4-LL-F

Wire spec:2P*26AWG,Shielding, drag chain 10 million times
Optional line length:0.5m,1.5m,3m,5m



Note: The M8SD4-M8PD4-LL-F is a straight-through cable with a one-to-one pin assignment, enabling direct interchangeability of its connectors.

■ iSMD_IP65 model STO interface attachment

■ M8-P6A-MWO

Wire spec:26AWG (Single wire)

