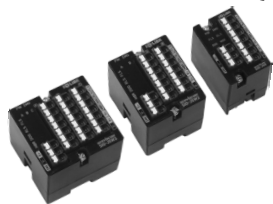


SIO Series Terminal for Servo I/O Connection

User's Guide

Servo Connector
SERVOCON

MITSUBISHI



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Caution for safety

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- Caution** Case that results in slight damage in human body or equipment, and fire if user handles this equipment wrongly

Warning

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It is cause fire or electric shock.
- Do not use if the cable sheath is damaged.
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- When machining and wiring the mounting hole, do not allow foreign matter such as dust or wire covering to enter the connection terminal.
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- Do not use outdoors.
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- Use within the specified temperature range. (-10°C ~ +50°C)
Damage to the outer case may occur.
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TEL: (02)837-2230 FAX: (02)837-2228

NO.204205-0M-ENG-SIO_01.UL

Model/Specification

Model		SIO-J5G	SIO-J5W2	SIO-J5W3
Applied servo	Maker	MITSUBISHI		
	Servo amplifier	J5-CG / J5-CB JA-CB / J3-CB	J5W2-CG / J4W2-CB J3W-CB	J5W3-CG / J4W3-CB
Signal configuration		Input: FLS / RLS / DOG / EM2 Output: MBR	Input: 2axis FLS / RLS / DOG / EM2 Output: 2axis MBR	Input: 3axis FLS / RLS / DOG / EM2 Output: 3axis MBR
Operation indicator lamp		PW FLS / RLS / DOG / EM2 / MBR	PW 2axis FLS / RLS / DOG / EM2 / MBR	PW 3axis FLS / RLS / DOG / EM2 / MBR
Interface	Servo side	MDR 20P Male		
	Terminal side	Push-in Terminal 3.5Pitch 10Pole	Push-in Terminal 3.5Pitch 17Pole	Push-in Terminal 3.5Pitch 24Pole
Dimension (W × Dmm)		22.0 × 33.0	30.0 × 37.0	38.0 × 37.0
Exposure width when amplifier is mounted (mm)		4.5	2.5	7.5
Rated voltage		24V DC =, Class 2		
Rated current		1A		
Pitches between terminals		3.5mm		
Operation indication		Power, IO : LED (Green) / EM2 : LED (Red)		
Insulation resistance		500MΩ or more (500Vdc =)		
Withstand voltage		500Vac —, 1min		
Material	Case	Polycarbonate		
	Terminal block	LCP		
	Board	Epoxy 1.6t		
	Pin header	Cu alloy		
Suitable wire	Solid wire	AWG 24 ~ 16 (Use copper conductor only) / 0.2 ~ 1.5mm ²		
	Stranded wire	AWG 24 ~ 16 (Use copper conductor only) / 0.2 ~ 1.5mm ²		
Environment resistant (Note 1)	Ambient temperature	-10°C ~ +50°C		
	Ambient humidity	35 ~ 85%RH		
Certification		CE, UL		
Weight (Note 2)		About 30g (About 22g)	About 41g (About 32g)	About 48g (About 40g)

Note 1) The conditions of use are that they are not freezing or condensing.
Note 2) It is weight in packed condition, parenthesized is only the product weight.

Selection of ferrule (When using a stranded wire.)

AWG/mm ²	DIN46228	Other	A(mm)	B(mm)	C(mm)
20/0.5	White	White/Orange	8.0	1.3	3.2
18/0.75	Gray	Blue/White	8.0	1.5	3.4

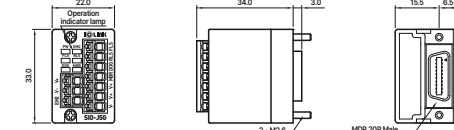
Exposure width when amplifier is mounted(mm)

SIO-J5G	SIO-J5W2	SIO-J5W3
4.5	2.5	7.5

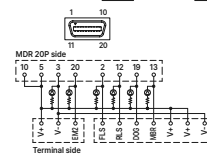
* When installing multiple amplifiers, secure space in consideration of the exposure width of the SERVOCON(SIO series).

SIO-J5G

Dimension

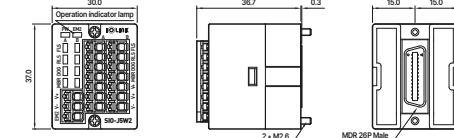


Wiring diagram

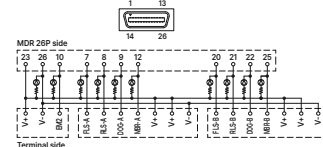


SIO-J5W2

Dimension

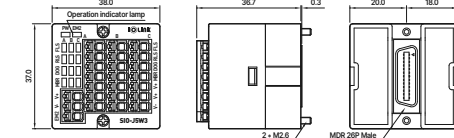


Wiring diagram

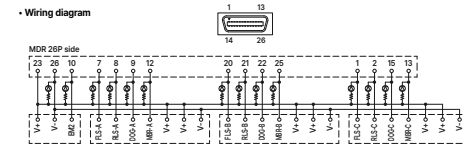


SIO-J5W3

Dimension



Wiring diagram

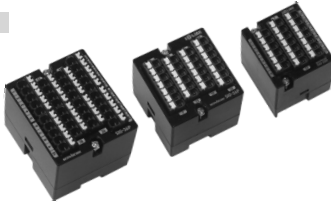


SIO Series Terminal for Servo I/O Connection

User's Guide

Servo Connector
SERVOCON

SIO-□□P



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It is cause fire or electric shock.
- Do not use if the cable sheath is damaged.
It may cause electric shock.
- When machining and wiring the mounting hole, do not allow foreign matter such as dust or wire covering to enter the connection terminal.
Failure to do so may result in damage to the unit, heat, or ignition.

Caution

- Use within the specified rated voltage and rated current range.
This may result in fire or damage to the product.
- Do not use outdoors.
Electric shock and product life may be shortened.
- Use within the specified temperature range. (-10°C ~ +50°C)
Damage to the outer case may occur.
- Do not use water or organic solvents for cleaning.
It may cause electric shock and damage to the product.

Use caution

- Use in the specified temperature and humidity.
- Input power should be isolated and supplied with limited voltage/current or Class 2, SELV power supply.
- Use AWG 24 ~ 16 for the power line, and check the crimp terminal after checking the "Ferrule selection" specification.
- The device is suitable for use only within an acceptable enclosure which has mechanical rigidity.
- Can be used under the following environmental conditions.
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TEL: 02163-72230 FAX: 02163-72228

NO.202405-0M-ENG-SIO_D4

Model/Specification

Model	SIO-20P	SIO-26P	SIO-36P
Maker	MITSUBISHI		LS Mecaplon
Applied servo	J5-CG / J5-CB J4-CB / J3-CB	J5W3-CG / J4W3-CB J5W2-CG / J4W2-CB J3W-CB	IX7M-A-□□□□□□
Signal configuration	20Pole	26Pole	36Pole
Interface	Servo side Terminal side	Servo Amplifier Terminal side	Servo Amplifier Terminal side
Dimension (W × D × H)	30.0 × 33.0	35.0 × 37.0	38.0 × 43.0
Exposure width when amplifier is mounted (mm)	12.5	7.5	6.3
Rated voltage	24V DC —, Class 2		
Rated current	1A		
Pitches between terminals	3.5mm		
Insulation resistance	500MΩ or more (500Vdc —)		
Withstand voltage	500Vac —, 1min		
Material	Case Terminal block Board Pin header	Polycarbonate LCP Epoxy 1.6t Cu alloy	
Suitable wire	Solid wire Stranded wire	AWG 24 ~ 16 (Use copper conductor only) / 0.2 ~ 1.5mm ² AWG 24 ~ 16 (Use copper conductor only) / 0.2 ~ 1.5mm ²	
Environment resistant	Ambient temperature Ambient humidity	-10°C ~ +50°C 35 ~ 85%RH	
Certification	CE		
Weight	About 36g (About 29g)	About 44g (About 37g)	About 56g (About 47g)

Note 1) The conditions of use are that they are not freezing or condensing.
Note 2) It is weight in packed condition, parenthesized is only the product weight.

Selection of ferrule (When using a stranded wire.)

AWG/mm ²	DIN46228	Other	A(mm)	B(mm)	C(mm)
20/0.5	White	White/Orange	8.0	1.3	3.2
18/0.75	Gray	Blue/White	8.0	1.5	3.4

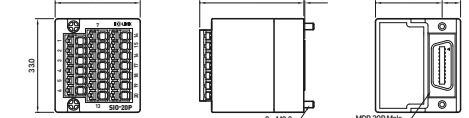
Exposure width when amplifier is mounted(mm)

SIO-20P	SIO-26P	SIO-36P
12.5	7.5	6.3

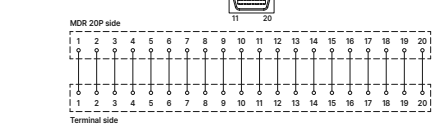
• When installing multiple amplifiers, secure space in consideration of the exposure width of the SERVOCON(SIO series).

SIO-20P

Dimension

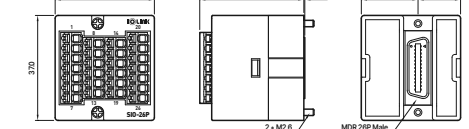


Wiring diagram

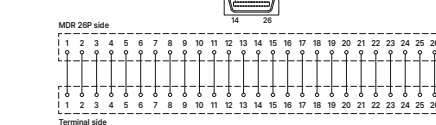


SIO-26P

Dimension

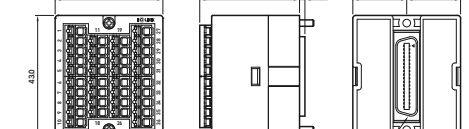


Wiring diagram

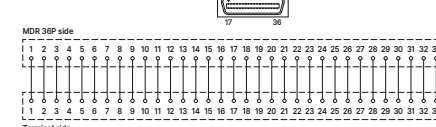


SIO-36P

Dimension



Wiring diagram



SIO Series Terminal for Servo I/O Connection

User's Guide

Servo Connector
SERVOCON

LS Mecapion



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- Use within the specified temperature range. (-10°C ~ +50°C)
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Use caution

- Use in the specified temperature and humidity.
- Input power should be isolated and supplied with limited voltage/current or Class 2, SELV power supply.
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NO.202405-0M-ENG-SIO_05

Model/Specification

Model	SIO-L7NH	SIO-IX7M2	SIO-IX7M3	SIO-IX7M4
Maker	LS Mecapion			
Applied servo	L7NH□□	IX7M-A-□□□XB	IX7M-A-□□□XB	IX7M-A-□□□□B
Servo amplifier	L7NH□□	IX7M-A-□□□XB	IX7M-A-□□□XB	IX7M-A-□□□□B
Signal configuration	Input : POT/NOTHOME/STOP Output : BRAKE	Input : 2axis POT/NOTHOME/EMG Output : 2axis BRAKE	Input : 3axis POT/NOTHOME/EMG Output : 3axis BRAKE	Input : 4axis POT/NOTHOME/EMG Output : 4axis BRAKE
Operation indicator lamp	PW POT/NOTHOME/STOP/BK MDR 20P Male	2axis POT/NOTHOME/EMG/BK MDR 36P Male	PW 3axis POT/NOTHOME/EMG/BK MDR 36P Male	PW 4axis POT/NOTHOME/EMG/BK MDR 36P Male
Interface	Terminal side Push-In Terminal 3.5Pitch 10Pole	Terminal side Push-In Terminal 3.5Pitch 19Pole	Terminal side Push-In Terminal 3.5Pitch 27Pole	Terminal side Push-In Terminal 3.5Pitch 35Pole
Dimension (W×Dmm)	22.0×33.0	30.0×43.0	38.0×43.0	48.0×43.0
Exposure width when amplifier is mounted (mm)	5.5	2.3	6.3	7.3
Rated voltage	24V DC ≡, Class 2			
Rated current	1A			
Patches between terminals	3.5mm			
Operation indication	Power, IO : LED (Green) / STOP, EMG : LED (Red)			
Insulation resistance	500MΩ or more (500Vdc ≡)			
Withstand voltage	500Vac ~~, 1min			
Material	Case LCP Terminal block Epoxy 1.6t Board Cu alloy Pin header AWG 24 ~ 16 (Use copper conductor only) / 0.2 ~ 1.5mm ²	Polycarbonate		
Suitable wire	Solid wire AWG 24 ~ 16 (Use copper conductor only) / 0.2 ~ 1.5mm ² Stranded wire AWG 24 ~ 16 (Use copper conductor only) / 0.2 ~ 1.5mm ²			
Environment resistant	Ambient temperature -10°C ~ +50°C Ambient humidity 35 ~ 85%RH			
Certification	CE			
Weight ^{Note 2)}	About 30g (About 22g)	About 44g (About 37g)	About 50g (About 43g)	About 61g (About 52g)

Note 1) The conditions of use are that they are not freezing or condensing.
Note 2) It is weight in packed condition, parenthesized is only the product weight.

Selection of ferrule (When using a stranded wire.)

AWG/mm ²	DIN46228	Other	A(mm)	B(mm)	C(mm)
20/0.5	White	White/Orange	8.0	1.3	3.2
18/0.75	Gray	Blue/White	8.0	1.5	3.4

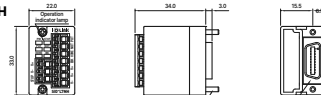
Exposure width when amplifier is mounted(mm)

SIO-L7NH	SIO-IX7M2	SIO-IX7M3	SIO-IX7M4

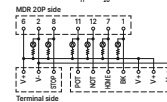
* When installing multiple amplifiers, secure space in consideration of the exposure width of the SERVOCON(SIO series).

SIO-L7NH

Dimension

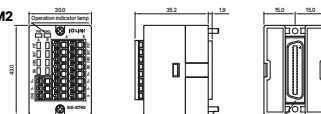


Wiring diagram

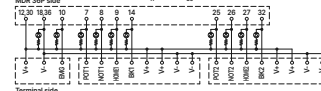


SIO-IX7M2

Dimension

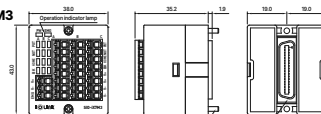


Wiring diagram

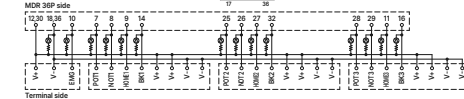


SIO-IX7M3

Dimension

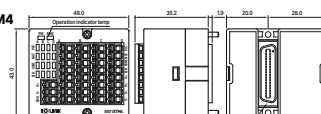


Wiring diagram

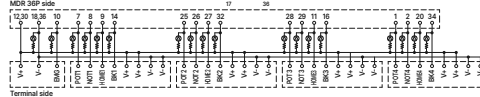


SIO-IX7M4

Dimension



Wiring diagram



SIO Series Terminal for Servo I/O Connection

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Servo Connector
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PANASONIC
YASKAWA
OMRON



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NO.202405-OM-ENG-SIO_06

Model/Specification

Model	SIO-PYO	SIO-PYO-E	SIO-PAB-E	SIO-PAB-E/R
Maker	PANASONIC / YASKAWA / OMRON	PANASONIC		
Applied servo	A6N Series (RTEX) A6S Series (EtherCAT) T7S Series (MECHATRONIK/EtherCAT) G5 Series (EtherCAT)	A6N/A5M Series (RTEX, Setting B) A6S Series (EtherCAT, Latch correction)		
Signal configuration	Input : POT/NOT/HOME/DI Output : BRAKE	Input : POT/NOT/HOME/DI Output : BRAKE		Input : POT/NOT/HOME/DI Output : BRAKE (Relay)
Operation indicator lamp	PW POT/NOT/HOME/DI/BK			
Interface	Servo side Terminal side Connector side	MDR 26P Male Push-in Terminal 3.5Pitch 10Pole Push-in Terminal 3.5Pitch 3Pole + e-con 3P Female 4	Push-in Terminal 3.5Pitch 10Pole	Push-in Terminal 3.5Pitch 3Pole + e-con 3P Female 4
Dimension (W×Dmm)	22.0×38.0	27.0×38.0	22.0×38.0	27.0×38.0
Exposure width when amplifier is mounted (mm)	5.0	10.0	5.0	10.0
Rated voltage	24V DC ±, Class 2			
Rated current	1A			
Patches between terminals	3.5mm			
Operation indication	Power, IO : LED (Green)			
Insulation resistance	500MΩ or more (500Vdc ±)			
Withstand voltage	500Vac ±, 1min			
Material	Terminal block Board Pin header	Polycarbonate Epoxy 1.6T Cu alloy		
Material	Solid wire Stranded wire	AWG 24 ~ 16 (Use copper conductor only) / 0.2 ~ 1.5mm ² AWG 24 ~ 16 (Use copper conductor only) / 0.2 ~ 1.5mm ²		
Environment resistant	Ambient temperature Ambient humidity	-10°C ~ +50°C 35 ~ 85%RH		
Certification	CE			
Weight	Weight (Note 2)	About 31g (About 24g)	About 36g (About 29g)	About 31g (About 24g)

Note 1) The conditions of use are that they are not freezing or condensing.
Note 2) It is weight in packed condition, parenthesized is only the product weight.

e-con plug connector applicable specification (Separate product)

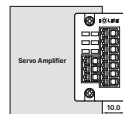
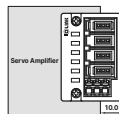
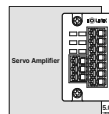
Body color	Cover color	Plug connector product no. (3Pin)	AWG No.	Wire cross-section in SQ.	Wire insulation outer-diameter in mm
Gray	Violet	EC-3P68VT	26 ~ 28	0.08 ~ 0.13mm ²	0.6 ~ 0.8
	Red	EC-3P68RD			0.8 ~ 1.0
Black	Violet	EC-3P46VT	24 ~ 26	0.13 ~ 0.21mm ²	0.6 ~ 0.8
	Red	EC-3P46RD			0.8 ~ 1.0
	Yellow	EC-3P46YE			1.0 ~ 1.2
	Orange	EC-3P46OG			1.2 ~ 1.6
	Green	EC-3P02GN	20 ~ 22	0.32 ~ 0.5mm ²	1.0 ~ 1.2
	Blue	EC-3P02BU			1.2 ~ 1.6
Gray	EC-3P02GY	1.6 ~ 2.0			

Selection of ferrule (When using a stranded wire.)

AWG/mm ²	DIN46228	Other	A(mm)	B(mm)	C(mm)
20/0.5	White	White/Orange	8.0	1.3	3.2
18/0.75	Gray	Blue/White	8.0	1.5	3.4

Exposure width when amplifier is mounted(mm)

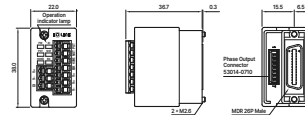
SIO-PYO / SIO-PAB SIO-PYO-E / SIO-PAB-E SIO-PAB-E/R



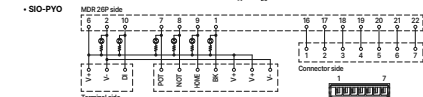
When installing multiple amplifiers, secure space in consideration of the exposure width of the SERVOCON(SIO series).

SIO-PYO SIO-PAB

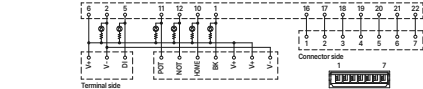
Dimension



Wiring diagram

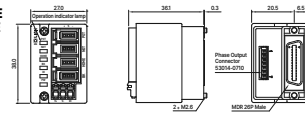


SIO-PAB

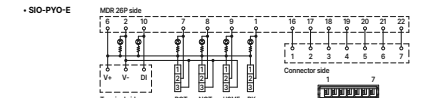


SIO-PYO-E SIO-PAB-E

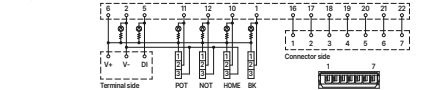
Dimension



Wiring diagram

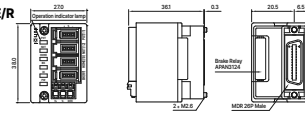


SIO-PAB-E

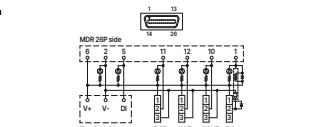


SIO-PAB-E/R

Dimension



Wiring diagram



SIO Series Terminal for Servo I/O Connection

User's Guide

Servo Connector
SERVOCON
e-con type



Thank you for purchasing product of SAMWON ACT.
Please check model of product that you purchase first, and read this manual prior to use it.

Caution for safety

- Warning** Case that results in serious damage in human body or equipment, and fire if user handles this equipment wrongly
- Caution** Case that results in slight damage in human body or equipment, and fire if user handles this equipment wrongly

Warning

- Do not open the cover while the power is on or during operation.
It may cause electric shock.
- Be sure to shut off the power supply from the outside before mounting and wiring.
It is cause fire or electric shock.
- Do not use if the cable sheath is damaged.
It may cause electric shock.
- When machining and wiring the mounting hole, do not allow foreign matter such as dust or wire covering to enter the connection terminal.
Failure to do so may result in damage to the unit, heat, or ignition.

Caution

- Use within the specified rated voltage and rated current range.
This may result in fire or damage to the product.
- Do not use outdoors.
Electric shock and product life may be shortened.
- Use within the specified temperature range. (-10°C ~ +50°C)
Damage to the outer case may occur.
- Do not use water or organic solvents for cleaning.
It may cause electric shock and damage to the product.

Use caution

- Use in the specified temperature and humidity.
- Input power should be isolated and supplied with limited voltage/current or Class 2, SELV power supply.
- Use AWG 24 ~ 16 for the power line, and check the crimp terminal after checking the "Ferrule selection" specification.
- The device is suitable for use only within an acceptable enclosure which has mechanical rigidity.
- Can be used under the following environmental conditions.
①Indoor ②Pollution Degree 2 ③Altitude 2,000m or less ④Installation Category II

- The above specifications are subject to change without notice.
- Please contact HQ or branch office where you purchased product for A/S of this product or technique.

삼원ACT
SAMWON ACT CO., LTD.

■ HQ 147035, 28, Daedong-ro, Sasang-gu, Busan
TEL. 051-320-7777 FAX. 051-312-2233
■ Seoul Office 14353, M-Cluster'07, 17 Deogun-ro
104beon-gil, Gwangmyeong-si, Gyeonggi-do
TEL. 02-0937-2230 FAX. 02-0937-2228

NO.202405-OM-ENG-SIO-Q7_UL

Model/Specification

Model	SIO-J5G-E	SIO-J5G-E/R	SIO-J5W2-E	SIO-J5W3-E
Maker	MITSUBISHI			
Applied servo	J5-CG/J5-CB J4-CB/J3-CB		J5W2-CG/J4W2-CB J3W-CB	J5W3-CG/J4W3-CB
Signal configuration	Input: FLS/RLS/DOG/EM2 Output: MBR	Input: FLS/RLS/DOG/EM2 Output: MBR(Relay)	Input: 2w/LS/RLS/DOG/EM2 Output: 2w/LS/MBR	Input: 3w/LS/RLS/DOG/EM2 Output: 3w/LS/MBR
Operation indicator lamp	PW FLS/RLS/DOG/EM2/MBR	PW FLS/RLS/DOG/EM2/MBR	PW 2w/LS/RLS/DOG/EM2/MBR	PW 3w/LS/RLS/DOG/EM2/MBR
Servo side	MDR 20P Male			
Terminal side	Push-in Terminal 3.5Pitch 5Pole + e-con 3P Female * 3			
Dimension (W×D×H)	27.5 × 33.0	27.5 × 33.0	36.5 × 37.1	51.5 × 37.1
Exposure width when amplifier is mounted (mm)	10.0	10.0	9.7	9.7
Rated voltage	24V DC —, Class 2			
Rated current	1A			
Patches between terminals	3.5mm			
Operation indication	Power, IO : LED (Green) / EM2 : LED (Red)			
Insulation resistance	500MΩ or more (500Vdc —)			
Withstand voltage	500Vac —, 1min			
Material	Case Polycarbonate Terminal block LCP Board Epoxy 1.6t Pin header Cu alloy Solid wire AWG 24 ~ 16 (Use copper conductor only) / 0.2 ~ 1.5mm ² Stranded wire AWG 24 ~ 16 (Use copper conductor only) / 0.2 ~ 1.5mm ²			
Environment	Ambient temperature -10°C ~ +50°C Ambient humidity 35 ~ 85%RH			
Certification	CE, UL			
Weight (kg)	About 29g (About 23g)	About 33g (About 26g)	About 41g (About 34g)	About 50g (About 43g)

Note 1) The conditions of use are that there are not freezing or condensing.
Note 2) It is weight in packed condition, parenthesized is only the product weight.

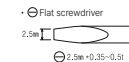
e-con plug connector applicable specification (Separate product)

Body color	Cover color	Plug connector product no. (3Pin)	AWG No.	Wire cross-section in SQ.	Wire insulation outer-diameter in
Gray	Violet	EC-3P8VTV	26 - 28	0.08 - 0.13mm ²	0.6 - 0.8
	Red	EC-3P68RD			0.8 - 1.0
	Yellow	EC-3P46YV			0.6 - 0.8
Black	Red	EC-3P46RD	24 - 26	0.13 - 0.21mm ²	0.8 - 1.0
	Yellow	EC-3P46YV			1.0 - 1.2
	Orange	EC-3P46OG			1.2 - 1.6
	Green	EC-3P02GN	20 - 22	0.32 - 0.5mm ²	1.0 - 1.2
	Blue	EC-3P02BU			1.2 - 1.6
	Gray	EC-3P02GY			1.6 - 2.0

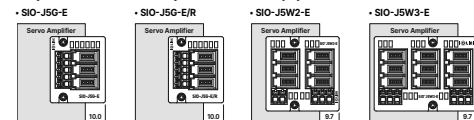
Selection of ferrule (When using a stranded wire.)

AWG/mm ²	DIN46228	Other	A(mm)	B(mm)	C(mm)
20/0.5	White	White/Orange	8.0	1.3	3.2
18/0.75	Gray	Blue/White	8.0	1.5	3.4

Suitable tool



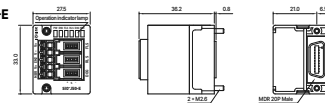
Exposure width when amplifier is mounted (mm)



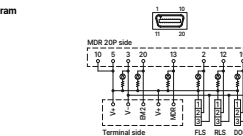
* When installing multiple amplifiers, secure space in consideration of the exposure width of the SERVOCON(SIO series).

SIO-J5G-E

Dimension

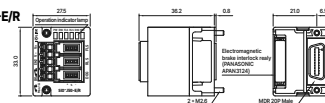


Wiring diagram

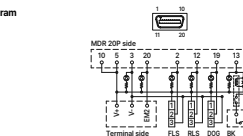


SIO-J5G-E/R

Dimension

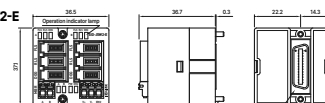


Wiring diagram

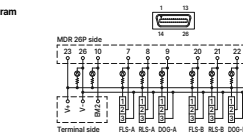


SIO-J5W2-E

Dimension

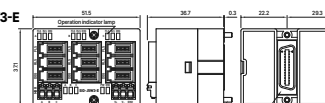


Wiring diagram



SIO-J5W3-E

Dimension



Wiring diagram

