

# Harness for Panasonic MINAS A/S Series

## Encoder Harness Connection Diagram

**SVEP-MINA1**  
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**Amplifier Side (HA)**      **Motor Side (HM)**

Signal Name	Wire Color	Pin Number	Pin Number	Wire Color	Signal Name
A	White	7	1	White	A
A'	Black	8	2	Black	A'
B	Red	9	3	Red	B
B'	Black	10	4	Black	B'
Z	Green	11	5	Green	Z
Z'	Black	12	6	Black	Z'
RX	Blue	17	11	Blue	RX
RX'	Black	18	12	Black	RX'
ESV	Gray	3	13	Gray	ESV
EOV	Black	1	14	Black	EOV
FG	Shield	20	15	Shield	FG

**SVEP-MINA2**  
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**Amplifier Side (HA)**      **Motor Side (HM)**

Signal Name	Wire Color	Pin Number	Pin Number	Wire Color	Signal Name
A	White	7	A	White	A
A'	Black	8	B	Black	A'
B	Red	9	C	Red	B
B'	Black	10	D	Black	B'
Z	Green	11	E	Green	Z
Z'	Black	12	F	Black	Z'
RX	Blue	17	P	Blue	RX
RX'	Black	18	R	Black	RX'
ESV	Gray	3	H	Gray	ESV
EOV	Black	1	G	Black	EOV
FG	Shield	20	J	Shield	FG

**SVEP-MINA3**  
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**Amplifier Side (HA)**      **Motor Side (HM)**

Signal Name	Wire Color	Pin Number	Pin Number	Wire Color	Signal Name
BAT (+)	White	5	1	White	BAT (+)
BAT (-)	Black	6	2	Black	BAT (-)
SD	Red	17	4	Red	TX
SD	Black	18	5	Black	TX
ESV	Green	3	7	Green	ESV
EOV	Black	1	8	Black	EOV
FG	Shield	20	3	Shield	FG

**SVEP-MINA4**  
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**Amplifier Side (HA)**      **Motor Side (HM)**

Signal Name	Wire Color	Pin Number	Pin Number	Wire Color	Signal Name
BAT (+)	White	5	S	White	BAT (+)
BAT (-)	Black	6	T	Black	BAT (-)
ESV	Red	1	G	Red	ESV
ESV	Black	3	H	Black	ESV
SD	Green	17	K	Green	TX
SD	Black	18	L	Black	TX
FG	Shield	20	J	Shield	FG

**SVEP-MINS1**  
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**Amplifier Side (HA)**      **Motor Side (HM)**

Signal Name	Wire Color	Pin Number	Pin Number	Wire Color	Signal Name
A	White	7	1	White	A
A'	Black	8	2	Black	A'
B	Red	9	3	Red	B
B'	Black	10	4	Black	B'
Z	Green	11	5	Green	Z
Z'	Black	12	6	Black	Z'
RX	Blue	17	11	Blue	RX
RX'	Black	18	12	Black	RX'
ESV	Gray	3	13	Gray	ESV
EOV	Black	1	14	Black	EOV
FG	Shield	20	15	Shield	FG

# Harness for Omron G5 Series

## Motor Harness Connection Diagram

**SVPO-G51**  
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Pin No.	Signal Name	Wire Color
1	U	Red
2	V	White
3	W	Blue
PE	FG	YG

**SVPO-G52, 53**  
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Pin Number	Signal	Wire Color
A	U	Red
B	V	White
C	W	Blue
D	FG	YG

\* View from device side mating surface

**SVPO-G51B**  
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Signal Name	Wire Color	Pin Number
Brake	Black	1
Brake	White	2

**SVPO-G52B, 53B, 54B**  
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Pin Number	Signal	Wire Color
G	Brake	Black
H	Brake	Black
F	U	Red
I	V	White
B	W	Blue
E	FG	Green / Yellow
D	FG	FG

\* Pin numbers E and D are short circuited