

HG1X –222/422/822 product to PLC Cable configuration details

PLC Supported by HG1X (222/422/822)products

- 1) Allen Bradley DF1
- 2) Allen Bradley DH485
- 3) Aromat FP Series
- 4) GE-90 Series
- 5) IDEC
- 6) Keyence KV Series
- 7) Koyo DL205
- 8) Mitsubishi FX
- 9) Modicon
- 10) OMRON Host Link
- 11) Siemens Step-7 Micro

S/N	PLC Type	HG1X- 222/422/822
1	Allen Bradley Micrologix	Straight Cable
2	Allen Bradley SLC500	Straight Cable
3	Aromat FP1 Series	Straight Cable
4	Aromat FP0/FPM Series	Straight Cable
5	GE-90 / Versamax with RJ port	Straight Cable
6	GE-90 / Versamax with DB9 port	Straight Cable
7	GE-90 / Versamax with DB15 port	Straight Cable
8	IDEC -Microsmart	Straight Cable
9	IDEC Micro3	Straight Cable
10	Keyence KV Series	Straight Cable
11	Koyo DL205	Straight Cable
12	Mitsubishi FX	Straight Cable
13	Modicon	Straight Cable
14	OMRON CMOS port	Straight Cable
15	OMRON RS232 port	Straight Cable
15	Siemens Step-7 Micro	Straight Cable

HG1X-222/422/822 PLC Port / DB 9 Female	Pin Descriptions
Pin no. 1	TX + (RS485)
Pin no. 2	TXD (RS232)
Pin no. 3	RXD (RS232)
Pin no. 4	RX + (RS485)
Pin no. 5	GROUND
Pin no. 6	VCC ; +5VDC
Pin no. 7	CMOS TXD
Pin no. 8	TX - (RS485)
Pin no. 9	RX - (RS485)
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A) HG1X 222 / 422/822 product :-

1) Allen Bradley Micrologix series :-

HG1X-222/422/822 end DB9 Male	Designation	AB Micrologix end 8 pin minidin connector
Pin no. 2	TXD	Pin no. 4
Pin no. 3	RXD	Pin no. 7
Pin no. 5	GND/Shield	Pin no. 2

2) Allen Bradley SLC series (DH485 port):-

HG1X-222/422/822 end DB9 Male	Designation	AB SLC500 end RJ connector (8P8C)
Short Pins 1 & 4	Signal A	Pin no. 1
Short pins 8 & 9	Signal B	Pin no. 2
Pin no. 5	GND/Shield	Pin no. 7

3) Aromat FP series:-

3a) Aromat FP0 / FPM/FP Sigma series

HG1X-222/422/822 end DB9 Male	Designation	Aromat FP end 5 pin minidin connector
Pin no. 2	TXD	Pin no. 3
Pin no. 3	RXD	Pin no. 2
Pin no. 5	GND/Shield	Pin no. 1

3b) Aromat FP1 series:

HG1X-222/422/822 end DB9 Male	Designation	Aromat FP1end 8 pin Aromat connector
Pin no. 1	TX+	Pin no. 6
Pin no. 4	RX+	Pin no. 5
Pin no. 8	TX-	Pin no. 3
Pin no. 9	RX-	Pin no. 2
Pin no. 5	GND/Shield	Pin no. 1

4) GE 90/30 & Versamax series:-

4a) GE –Versamax PLC with RJ type PLC port

HG1X-222/422/822 end DB9 Male	Designation	GE PLC end RJ / 8P8C Moduler connector
Pin no. 2	TXD	Pin no. 6
Pin no. 3	RXD	Pin no. 5
Pin no. 5	GND/Shield	Pin no. 1

-	-	Short pins 7 & 8
-	-	Short pins 3 & 4

4b) GE-Versamax PLC with DB 9 type PLC port:-

HG1X-222/422/822 end DB9 Male	Designation	GE Versamax PLC end DB9 Male connector
Pin no. 2	TXD	Pin no. 3
Pin no. 3	RXD	Pin no. 2
Pin no. 5	GND/Shield	Pin no. 5
-	-	Short pins 7 & 8
-	-	Short pins 3 & 4

4c) GE PLC with DB 15 type PLC port:-

HG1X-222/422/822 end DB9 Male	Designation	GE90/30 PLC end 15 pin Male connector
Pin no. 1	TX+	Pin no. 11
Pin no. 4	RX+	Pin no. 13
Pin no. 8	TX-	Pin no. 10
Pin no. 9	RX-	Pin no. 12
Pin no. 5	GND	Pin no. 7
Pin no.5	Shield	Pin no1
-	-	Short pins 6 & 15, Short pins 8 & 14

5) IDEC series:-

5a) For IDEC-MicroSmart Series

HG1X-222/422/822 end DB9 Male	Designation	IDEC series 8 pin minidin connector
Pin no. 2	TXD	Pin no. 4
Pin no. 3	RXD	Pin no. 3
Pin no. 5	GND/Shield	Pin no. 6 & 7

5b) For IDEC-Micro3 Series:

HG1X-222/422/822 end DB9 Male	Designation	IDEC Micro3 end R8 pin minidin connector
Short Pins 1 & 4	Signal A	Pin no. 1
Short pins 8 & 9	Signal B	Pin no. 2
Pin no. 5	GND/Shield	Pin no. 7

6) Keyence KV series:-

HG1X-222/422/822 end DB9 Male	Designation	Keyence series Modular connector (6P6C)
Pin no. 2	TXD	Pin no. 4

Pin no. 3	RXD	Pin no. 2
Pin no. 5	GND/Shield	Pin no. 3

7) Koyo DL205 PLC series:-

HG1X-222/422/822 end DB9 Male	Designation	Koyo DL205 series Modular connector (6P6C)
Pin no. 2	TXD	Pin no. 3
Pin no. 3	RXD	Pin no. 4
Pin no. 5	GND/Shield	Pin no. 1

8) Mitsubishi FX PLC series:-

HG1X-222/422/822 end DB9 Male	Designation	Mitsubishi PLC end 8 pin minidin connector
Pin no. 1	TX+	Pin no. 2
Pin no. 4	RX+	Pin no. 7
Pin no. 8	TX-	Pin no. 1
Pin no. 9	RX-	Pin no. 4
Pin no. 5	GND	Pin no. 3

9) Modicon PLC series:-

HG1X-222/422/822 end DB9 Male	Designation	Modicon Micro PLC Modular connector (8P8C)
Pin no. 2	TXD	Pin no. 4
Pin no. 3	RXD	Pin no. 3
Pin no. 5	GND/Shield	Pin no. 5
-	-	Short pins 7 & 8

10) OMRON PLC series:-

10a) CMOS port type PLC port

HG1X-222/422/822 end DB9 Male	Designation	OMRON PLC 20 pin CMOS connector
Pin no. 3	RXD	Pin no. 7
Pin no. 7	RXD	Pin no. 5
Pin no. 5	GND/Shield	Pin no. 10
-	-	Short pins 11&16 Short pins 3&15&17

10b) RS232 (DB9) type PLC port

HG1X-222/422/822 end DB9 Male	Designation	OMRON CQM 1PLC DB9 Male
Pin no. 2	TXD	Pin no. 3
Pin no. 3	RXD	Pin no. 2

Pin no. 5	GND/Shield	Pin no. 9
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11) Siemens S7-200 PLC series:-

HG1X-222/422/822 end DB9 Male	Designation	Siemens S7-200 PLC end DB 9 Male Connector
Short Pins 1 & 4	Signal A	Pin no. 3
Short pins 8 & 9	Signal B	Pin no. 8
Pin no. 5	GND/Shield	Pin no. 5