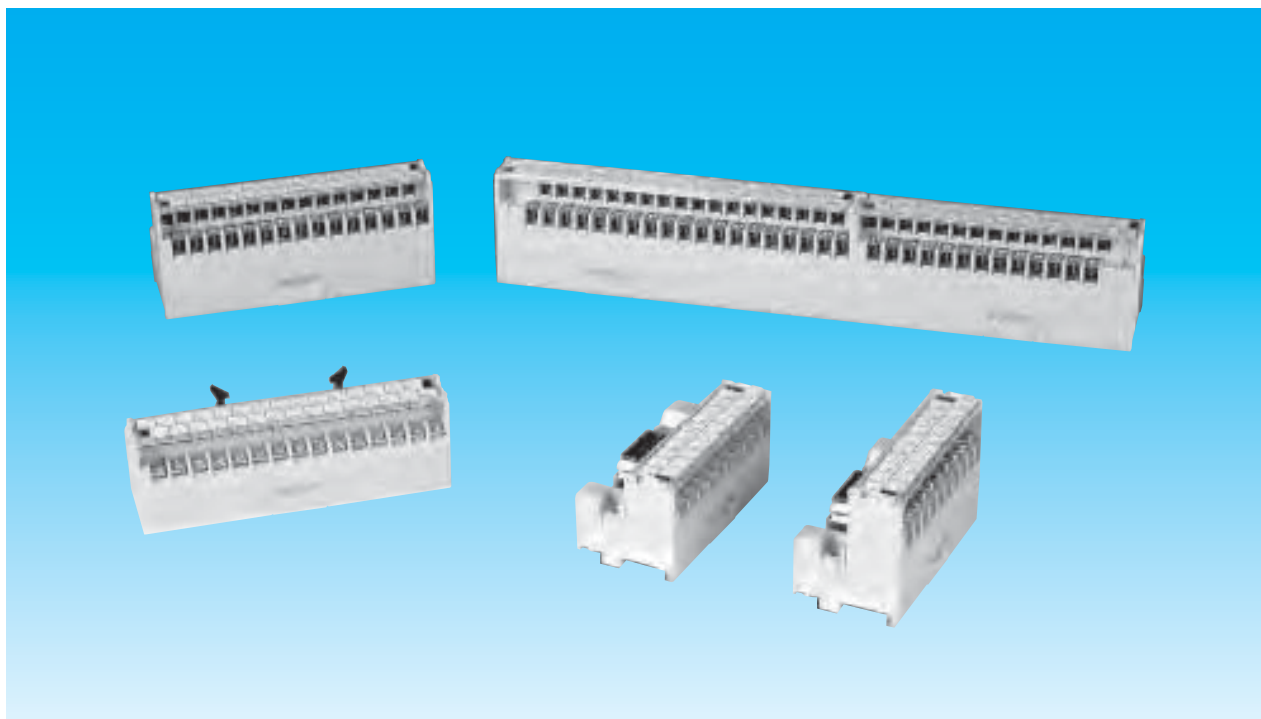


PS7DS/PX7DS series

PS7DS
PX7DS



Features

- 40mm width slim interface terminal block.
- Standard terminal type "PS7DW series" and Spring lifted terminal type "PX7DW series" are available.
- Number of terminal: 20, 25, 30, 34, 37, 40, 50, 64
- Vertical and back side connectors are also available.*
*Back side connector is not available for DIN rail mount. Please see page 15.
- UL, CSA listed.

How to order

PS7DS - 40 V 3
① ② ③ ④

- ① Series No. : PS7...Standard Terminal
PX7...Spring Lifted
- ② Terminal quantity : 20, 25, 30, 34, 37, 40, 50, 64
- ③ Connector Direction : V...Vertical: Connector faces front
H...Horizontal: Connector faces top
B...Back: Connector faces back
- ④ Connector Type : Parts Number
*Please select number from the connector list on page 14.

*Please specify if you require UL,C-UL compliance.

Specifications

Terminal No.	20, 25, 30, 34, 37, 40, 50, 64
Terminal Pitch	7.62mm
Recommended Wire	Max. 1.25mm ²
Tightening Torque	0.5~0.75N·m *When using crimp terminal
Terminal Size	M3×6L
Voltage Rating	125V
Maximum Current	1A
Withstand Voltage (50/60Hz)	AC500V·1min. with Terminal AC2000V·1min with GND
Insulation Resistant	>1000MΩ.*Between reception and ground terminal DC500VM
Vibration Resistant	10~55Hz/Double amplitude:1.5mm
Shock Resistant	491m/s ² (>50G)
Ambient Temperature	-20~+55°C *Operating
Ambient Temperature	-25~+85°C *Storage
Relative Humidity	45~85% R.H.
Mount Procedure	DIN rail or direct mount

Please see pages 156 - 159 for details UL,CSA compliance.*

*Please specify if you require UL or CSA compliance.

Standard / Spring Lifted 7.62mm Pitch Space Saving Model

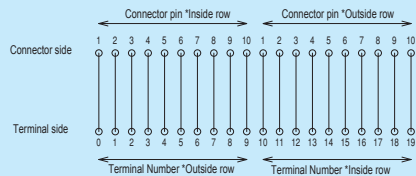
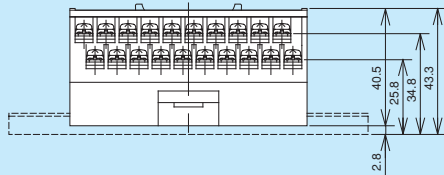
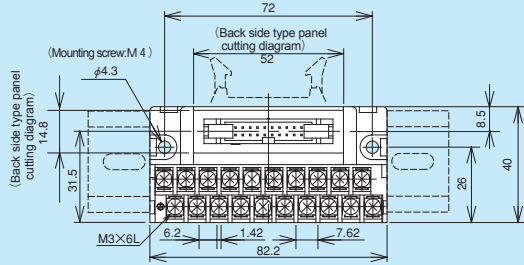
PS7DS
PX7DS

MIL Standard Connector Type

PS7DS-20V/H/B



UL US LISTED

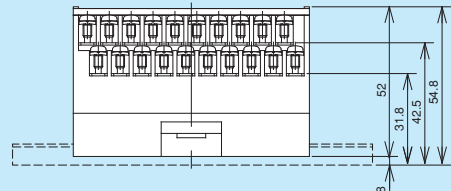
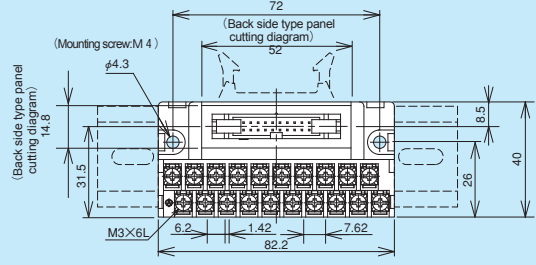


Front and back row connector pin assignments are reversed in case of using back side type.

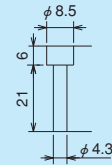
PX7DS-20V/H/B



UL US LISTED



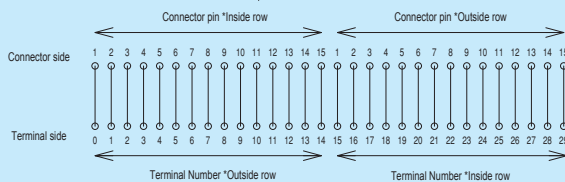
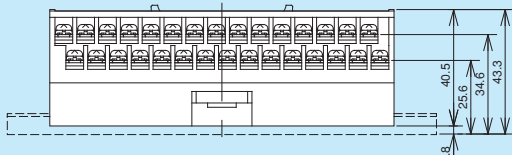
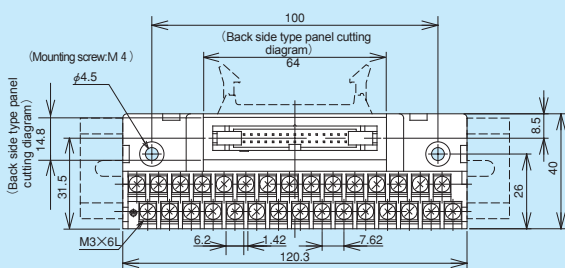
Mounting hole diagram



PS7DS-30V/H/B



UL US LISTED

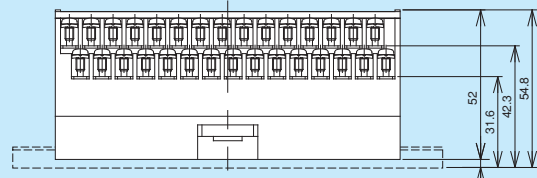
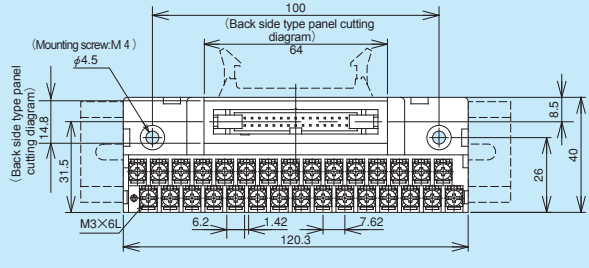


Front and back row connector pin assignments are reversed in case of using back side type.

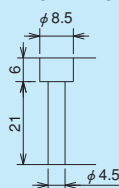
PX7DS-30V/H/B



UL US LISTED



Mounting hole diagram

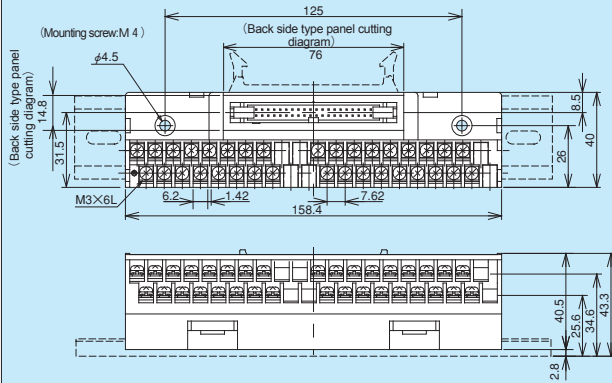


PS7DS/PX7DS series

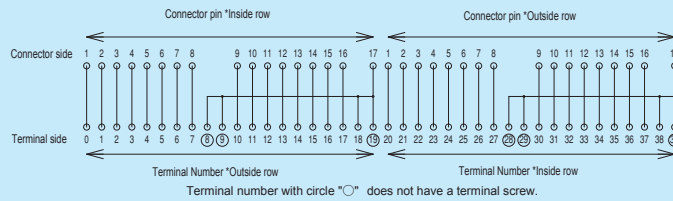
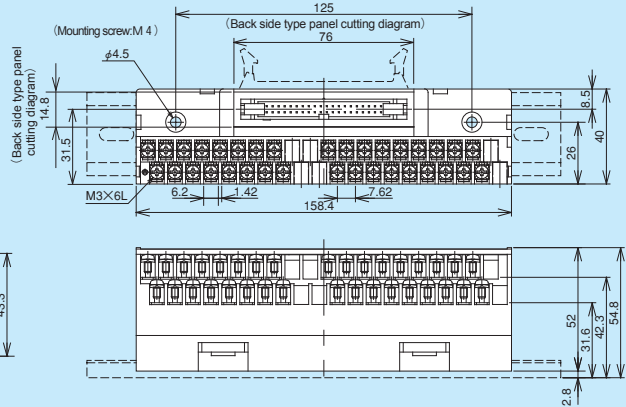
MIL Connector Type

PS7DS
PX7DS

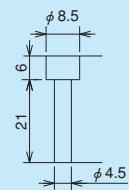
PS7DS-34V/H/B



PX7DS-34V/H/B

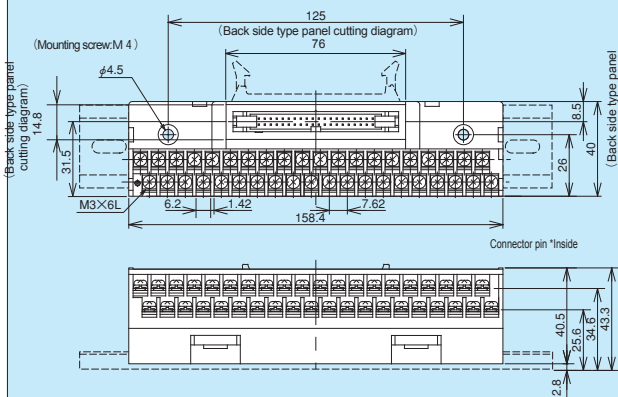


Mounting hole diagram

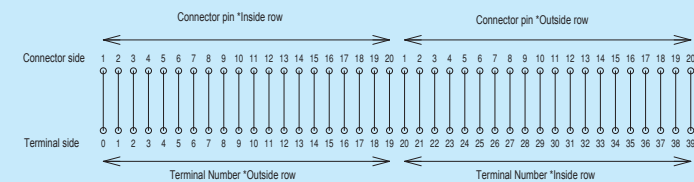
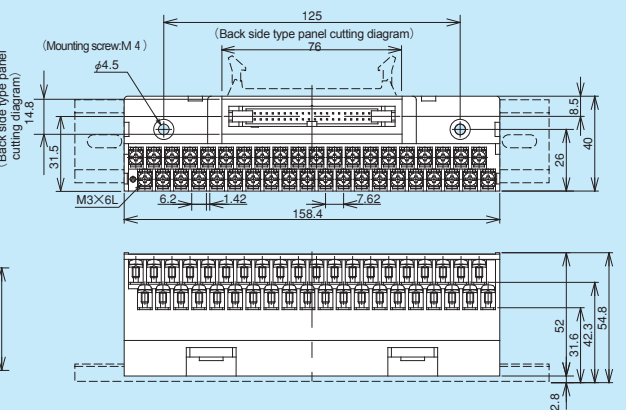


*Front and back row connector pin assignments are reversed in case of using back side type.

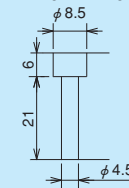
PS7DS-40V/H/B



PX7DS-40V/H/B



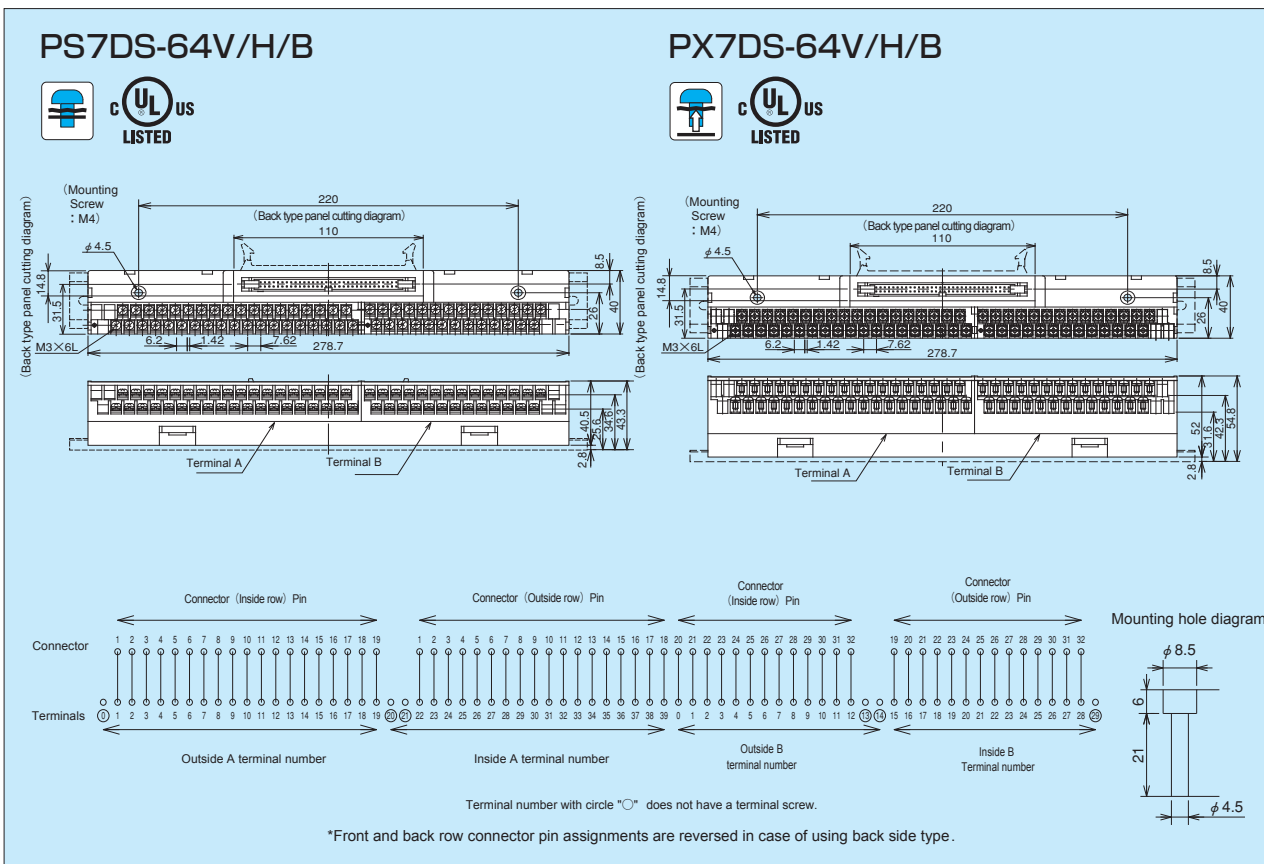
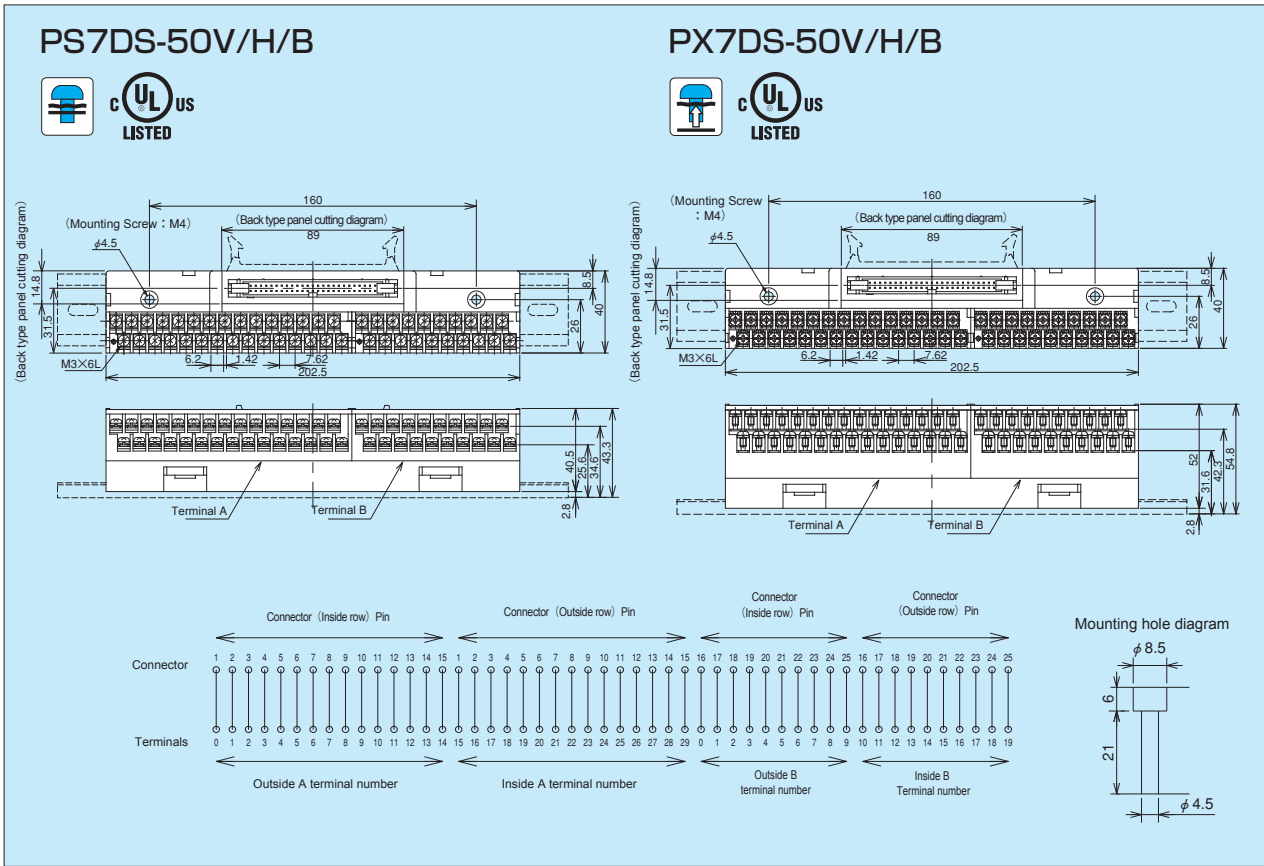
Mounting hole diagram



Standard / Spring Lifted 7.62mm Pitch Space Saving Model

PS7DS
PX7DS

MIL Connector Type



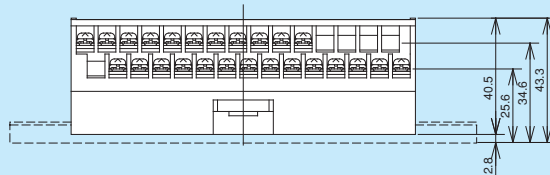
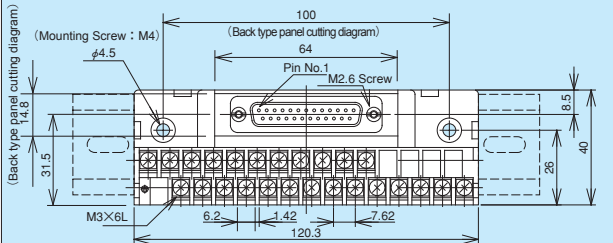
PS7DS/PX7DS series

PS7DS
PX7DS

D-sub Connector Type

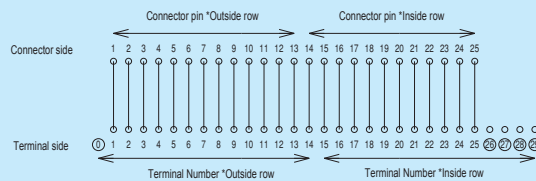
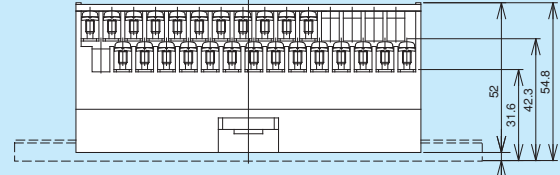
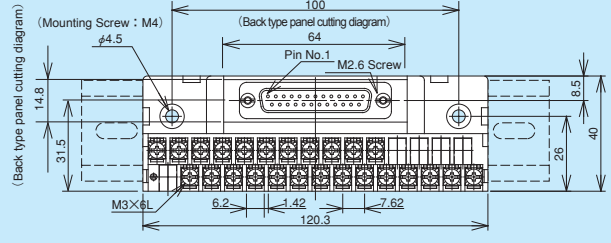
PS7DS-25V3A/B3A (JAE Connector P/N : DB-25P-T-N)

PS7DS-25V4A/B4A (Hirose Connector P/N : SDBB-25P)

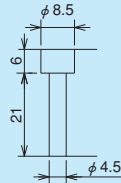


PX7DS-25V3A/B3A (JAE Connector P/N : DB-25P-T-N)

PX7DS-25V4A/B4A (Hirose Connector P/N : SDBB-25P)

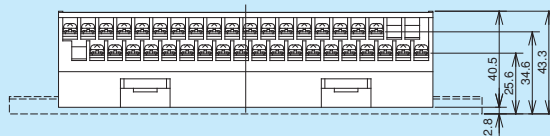
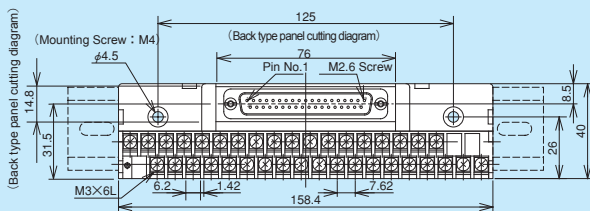


Mounting hole diagram



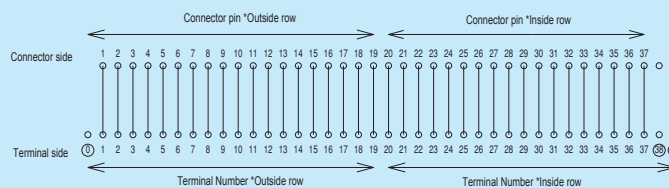
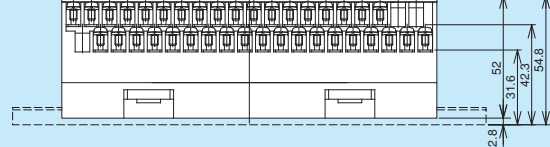
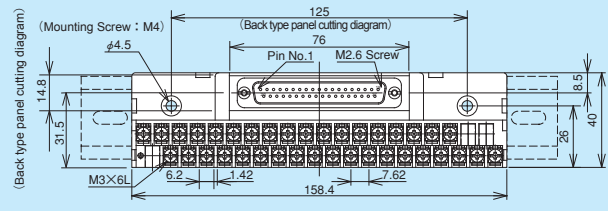
PS7DS-37V3A/B3A (JAE Connector P/N : DC-37P-T-N)

PS7DS-37V4A/B4A (Hirose Connector P/N : SDCB-37P)

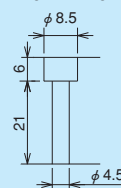


PX7DS-37V3A/B3A (JAE Connector P/N : DC-37P-T-N)

PX7DS-37V4A/B4A (Hirose Connector P/N : SDCB-37P)



Mounting hole diagram



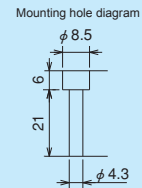
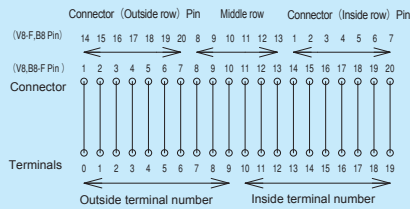
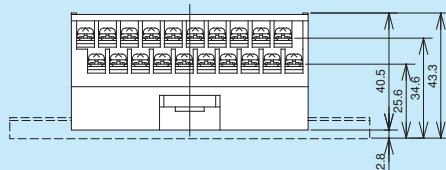
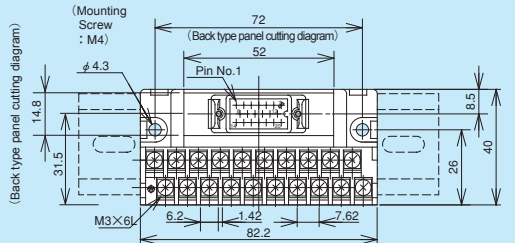
Terminal number with circle "○" does not have a terminal screw.

Standard / Spring Lifted 7.62mm Pitch Space Saving Model

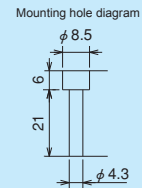
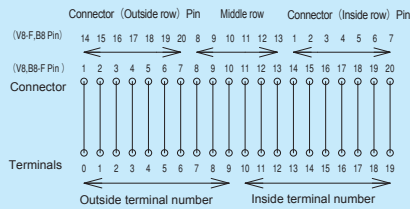
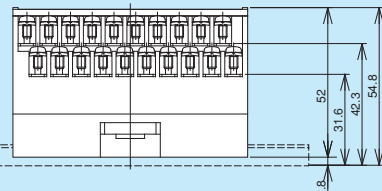
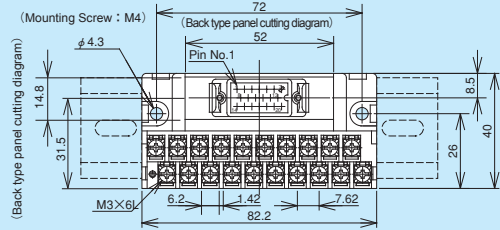
PS7DS
PX7DS

Honda MR Connector Type

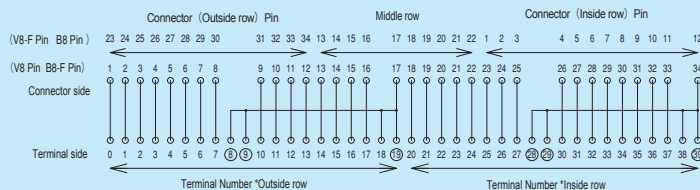
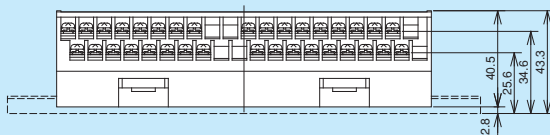
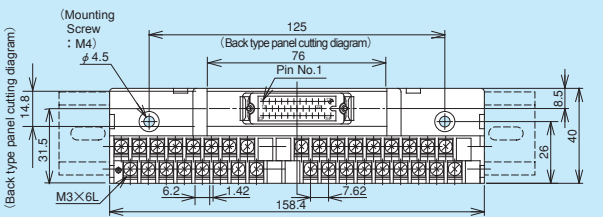
PS7DS-20V8/B8 (Male Connector P/N : MR-20RMD2)
PS7DS-20V8-F/B8-F (Female connector P/N : MR-20RFD2)



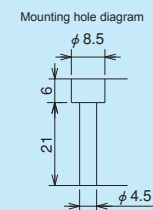
PX7DS-20V8/B8 (Male Connector P/N : MR-20RMD2)
PX7DS-20V8-F/B8-F (Female Connector P/N : MR-20RFD2)



PS7DS-34V8/B8 (Male Connector P/N : MR-34RMD2) PX7DS-34V8/B8 (Male Connector P/N : MR-34RMD2)
PS7DS-34V8-F/B8-F (Female Connector P/N : MR-34RFD2) PX7DS-34V8-F/B8-F (Female Connector P/N : MR-34RFD2)



Terminal number with circle "O" does not have a terminal screw.



PS7DS/PX7DS series

Standard / Spring Lifted 7.62mm Pitch
Space Saving Model

Honda MR Connector Type

PS7DS
PX7DS

PS7DS-50V8/B8

(Male Connector : MR-50RMD2)

PS7DS-50V8-F/B8-F

(Female Connector : MR-50RFD2)

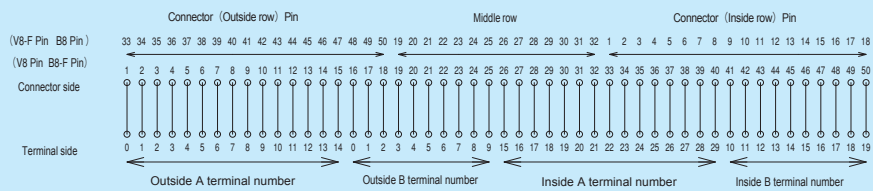
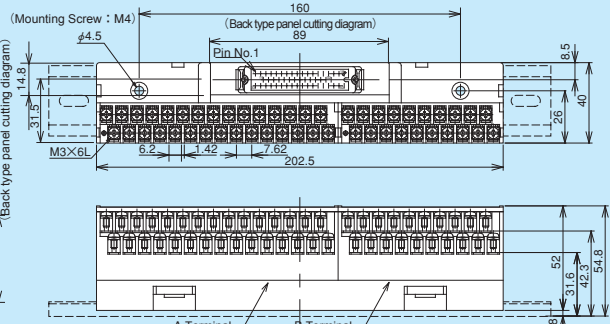
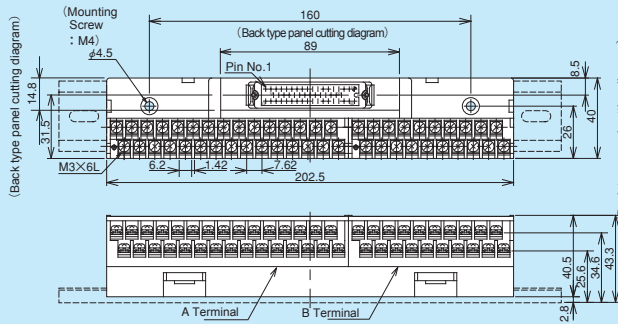


PX7DS-50V8/B8

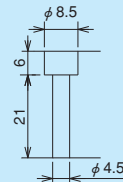
(Male Connector : MR-50RMD2)

PX7DS-50V8-F/B8-F

(Female Connector : MR-50RFD2)



Mounting hole diagram



Connector list

MIL-Standard Connector List

P/N	Manufacturer	Connector Side	Connector Direction	20P	30P	34P	40P	50P	
1	Obsolete								
2	Omron	Module Side	V/B	XG4A-2031	XG4A-3031	XG4A-3431	XG4A-4031	XG4A-5031	
			H	XG4A-2034	XG4A-3034	XG4A-3434	XG4A-4034	XG4A-5034	
		Cable Side	Flat	XG4M-2030	XG4M-3030	XG4M-3430	XG4M-4030	XG4M-5030	
			Round	XG5M-203*	XG5M-303*	XG5M-343*	XG5M-403*	XG5M-503*	
3	JAE	Module Side	V/B	PS-20PE-D4T1-LP1	PS-30PE-D4T1-LP1	PS-34PE-D4T1-LP1	PS-40PE-D4T1-LR	PS-50PE-D4T1-LP1	
			H	PS-20PE-D4LT1-LP1	PS-30PE-D4LT1-LP1	PS-34PE-D4LT1-LP1	PS-40PE-D4LT1-LP1	PS-50PE-D4LT1-LP1	
		Cable Side	Flat	PS-20SEN-D4P1-1C	PS-30SEN-D4P1-1C	PS-34SEN-D4P1-1C	PS-40SEN-D4P1-1C	PS-50SEN-D4P1-1C	
			Round	PS-D4C20	PS-D4C30	PS-D4C34	PS-D4C40	PS-D4C50	
4	Hirose Connectors	Module Side	V/B	HIF3BA-20PA-2.54DSA	HIF3BA-30PA-2.54DSA	HIF3BA-34PA-2.54DSA	HIF3BA-40PA-2.54DSA	HIF3BA-50PA-2.54DSA	
			H	HIF3BA-20PA-2.54DS	HIF3BA-30PA-2.54DS	HIF3BA-34PA-2.54DS	HIF3BA-40PA-2.54DS	HIF3BA-50PA-2.54DS	
		Cable Side	Flat	HIF3BA-20D-2.54R	HIF3BA-30D-2.54R	HIF3BA-34D-2.54R	HIF3BA-40D-2.54R	HIF3BA-50D-2.54R	
			Round	HIF3BA-20D-2.54C	HIF3BA-30D-2.54C	HIF3BA-34D-2.54C	HIF3BA-40D-2.54C	HIF3BA-50D-2.54C	
5	Obsolete								
6	Fujitsu	Module Side	V/B	—	—	—	FCN-364P040-AU	—	
			H	—	—	—	FCN-365P040-AU	—	
		Cable Side	Flat Crimp	—	—	—	FCN-367J040-*/*/	—	
			Round Crimp	—	—	—	FCN-363J040-*/	—	
Soldering	—	—	—	FCN-361J040-*/	—				
7	Obsolete								
8	HTK Honda Tsushin Kogyo	Module Side	V/B	MR-20RMD2	—	MR-34RMD2	—	MR-50RMD2	
			Cable Side	Round Crimp	MRP-20F01	—	MRP-34F01	—	MRP-50F01
				Soldering	MR-20F	—	MR-34F	—	MR-50F
9	Obsolete								
10	Yamaichi Electronics	Module Side	V/B	FAP-2001-1204-OBS	FAP-3001-1204-OBS	FAP-3401-1204-OBS	FAP-4001-120-OBS	FAP-5001-1204-OBS	
			H	FAP-2001-1202-OBS	FAP-3001-1202-OBS	FAP-3401-1202-OBS	FAP-4001-120-OBS	FAP-5001-1202-OBS	
		Cable Side	Flat	FAS-2001-2101-OBF	FAS-3001-2101-OBF	FAS-3401-2101-OBF	FAS-4001-201-OBF	FAS-5001-2101-OBF	
			Round	UFS-20B-04	UFS-30B-04	UFS-34B-04	UFS-40B-04	UFS-50B-04	
11	KEL	Module Side	V/B	6201-020-256	6201-030-256	6201-034-256	6201-040-256	6201-050-256	
			H	6201-020-258	6201-030-258	6201-034-258	6201-040-258	6201-050-258	
		Cable Side	Flat	6200-020-601	6200-030-601	6200-034-601	6200-040-601	6200-050-601	
			Round	—	—	—	—	—	
12	DDK Daiichi Denshi Kogyo	Module Side	V/B	FRC5-C20S53T-OL	FRC5-C30S53T-OL	FRC5-C34S53T-OL	FRC5-C40S53T-OL	FRC5-C50S53T-OL	
			H	FRC5-C20L53T-OL	FRC5-C30L53T-OL	FRC5-C34L53T-OL	FRC5-C40L53T-OL	FRC5-C50L53T-OL	
		Cable Side	Flat	FRC5-A020-2TOS	FRC5-A030-2TOS	FRC5-A034-2TOS	FRC5-A040-2TOS	FRC5-A050-2TOS	
			Round	—	—	—	—	—	
13	JST	Module Side	V/B	RX-H201TD-1190	—	RX-H341TD-1190	RX-H401TD-1190	RX-H501TD-1190	
			H	RX-H201SD-1190	—	RX-H341SD-1190	RX-H401SD-1190	RX-H501SD-1190	
		Cable Side	Flat	RX-S201S-1390	—	RX-S341S-1390	RX-S401S-1390	RX-S501S-1390	
			Round	—	—	—	—	—	
14	3M	Module Side	V/B	3428-6002LCSC	3440-6002LCSC	3431-6002LCSC	3432-6002LCSC	3433-6002LCSC	
			H	3428-5002LCSC	3440-5002LCSC	3431-5002LCSC	3432-5002LCSC	3433-5002LCSC	
		Cable Side	Flat	7920-F500SC	7930-F500SC	7934-F500SC	7940-F500SC	7950-F500SC	
			Round	—	—	—	—	—	

64P
XG4A-6431
XG4A-6434
XG4M-6430
—
—
—
—
—
HIF3BA-64PA-2.54DSA
HIF3BA-64PA-2.54DS
HIF3BA-64D-2.54R
HIF3BA-64D-2.54C
FCN-364P064-AU
—
FCN-367J064-*/
FCN-363J064-*
FCN-361J064-*
MFC-64RPM
MFC-64RLPM
MFC-64RFC
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—
—
FAP-6401-1204-OBS
FAP-6401-1202-OBS
FAS-6401-2101-OBF
—
—
—
—
—
FRC5-C64S53T-OL
FRC5-C64L53T-OL
FRC5-A064-2TOS
—
—
—
—
—
—
3764-6002LCSC
3764-5002LCSC
7964-F500SC
—

D-Sub Connector (Mounting screw is M2.5)

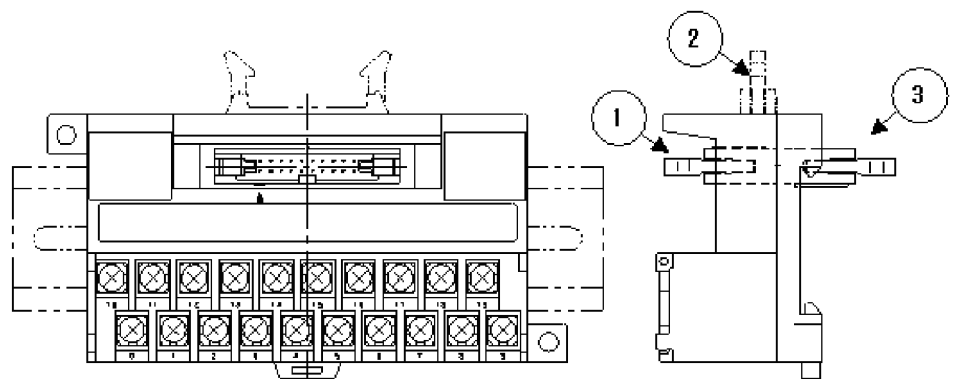
P/N	Manufacturer	Connector side		Connector Direction	25P	37P
3A	JAE	Module Side		V/B	DB-25P-T-N	DC-37P-T-N
		Cable Side	Crimp		DBU-25S-FO	DCU-37S-FO
			Soldering	DB-25S-N	DC-37S-N	
4A	Hirose Connectors	Module Side		V/B	SDBB-25P	SDCB-37P
		Cable Side	Crimp		CDB-25S**	CDC-37S**
			Soldering	HDBB-25S**	HDCB-37S**	

MR Male Connector Honda Tsushin Kogyo

P/N	Connector side	20P	34P	50P	
8-F	Module Side		MR-20RFD2	MR-34RFD2	MR-50RFD2
	Cable Side	Round Crimp	MRP-20M01	MRP-34M01	MRP-50M01
		Soldering	MR-20M	MR-34M	MR-50M

Notification

- Please contact us for inquiries regarding unlisted parts.
- Part numbers for the round cables are for example only. Excluding P/N 6,8.
- Some connectors may require additional housing. Please contact the connector manufacturer for more details.
- "*" indicates a difference in specification.
- Part numbers for the round shaped socket parts number is for example only. Please contact connector manufacturer for more details.
- Please refer to UL and CSA compliance on pages 156 -159.



- ① V - Vertical : Connector faces top
 ② H - Horizontal: Connector faces front
 ③ B - Back : Connector faces back



UL Compliant List

UL Compliant Products

P/N	Voltage Rating	Maximum Current	Recommended wire	Note
PM5D	125V	1A	Solid: 14-26AWG. Stranded: 16-22AWG.	
PM5DW	125V	1A	Solid:14-26AWG. Stranded: 16-22AWG.	
PM5WR	Input: TB side: DC24V CN side: AC125V / DC30V Output: TB side: AC250V / DC30V CNside: DC24V	Input: 1A (Resistance Inductive load) Output: 3A (Resistance load) 2A (Inductive load)	Solid:14-26AWG. Stranded: 16-22AWG.	

UL Compliant Connectors

P/N	Manufacturer	Mounting Direction	Part Number	Note
2	Omron	V/B	XG4A- () 31	(): Connector pin number
		H	XG4A- () 34	
12	Daiichi Denshi	V/B	FRC5 - C () S53T - OL	(): Connector pin number
		H	FRC5 - C () L53T - OL	
13	JST	V/B	RX - H () ITD -1190	(): Connector pin number
		H	RX - H () ISD -1190	
14	3M	V/B	3 ()- 6002LCSC	(): Pin number code 428: 20P, 440: 30P, 431: 34P, 432: 40P, 433: 50P
		H	3 ()- 6002LCSC	

UL, C-UL Compliant Products

P/N	Voltage Rating	Maximum Current	Recommended wire	Note
PS5D	125V	1A	14-20AWG.	
PS7DS / PX7DS	125V	1A	16-20AWG.	
PS7DW / PX7DW	125V	1A	16-20AWG.	
PS7L / PX7L	DC24V	Input: 7mA (Input Impedance: 3.3kΩ) Output: 500mA	16-20AWG.	
PSDS/PXDS	125V	1A	14-18AWG.	
PSD / PXD	125V	1A	14-18AWG.	
PSL / PXL	DC24V	Input: 7mA (Input Impedance: 3.3kΩ) Output: 500mA	14-18AWG.	
PSP / PXP	DC24V	10mA MAX. (Open collector)	14-18AWG.	
PSND	125V	1A	10-16AWG.	
PSWR / PXWR	Input: TB side: DC24V CN side: AC125V / DC30V Output: TB side: AC250V / DC30V CN side: DC24V	Input: 1A (Resistance Inductive load) Output: 3A (Resistance load) 2A (Inductive load)	14-18AWG.	
PSWP / PXWP	Input : TB side: DC24V CN side: DC30V MAX. Output: TB side: DC30V MAX. CN side: DC30V MAX.	10mA MAX. (Open collector)	14-18AWG.	
PSWPX / PXWPX	Input : TB side: DC24V CN side: DC30V MAX. Output: TB side: DC30V MAX. CN side: DC24V MAX.	Input: 10mA MAX. (Open collector) Output: 100mA MAX. (Open collector)	14-18AWG.	
PSTD	125V	1A	14-18AWG.	

UL, C-UL Compliant Connectors

P/N	Manufacturer	Mounting Direction	Part Number	Note
2	Omron	V/B	XG4A- () 31	() : Connector pin number
		H	XG4A- () 34	
12	Daiichi Denshi	V/B	FRC5 - C () S53T - OL	() : Connector pin number
		H	FRC5 - C () L53T - OL	
13	JST	V/B	RX - H () ITD -1190	() : Connector pin number
		H	RX - H () ISD -1190	
14	3M	V/B	3 () - 6002LCSC	() : Pin number code 428: 20P, 440: 30P, 431: 34P, 432: 40P, 433: 50P
		H	3 () - 6002LCSC	

CSA Compliant Products

P/N	Voltage Rating	Maximum Current	Recommended wire	Note
PM5D	125V	1A	Solid: 14-26AWG. Stranded: 16-22AWG.	
PM5DW	125V	1A	Solid: 14-26AWG. Stranded: 16-22AWG.	
PM5WR	Input: TB side: DC24V CN side: AC125V / DC30V Output: TB side: AC250V / DC30V CN side: DC24V	Input: 1A (Resistance Inductive load) Output: 3A (Resistance load) 2A (Inductive load)	Solid: 14-26AWG. Stranded: 16-22AWG.	
PS5D	125V	1A	14-20AWG.	
PS7DW / PX7DW	125V	1A	16-20AWG.	
PS7L / PX7L	DC24V	Input: 7mA (Input Impedance: 3.3kΩ) Output: 500mA	16-20AWG.	
PSD / PXD	*125V(60V)	1A	14-18AWG.	
PSL / PXL	DC24V	Input: 7mA (Input Impedance: 3.3kΩ) Output: 500mA	14-18AWG.	Except IZ
PSP / PXP	DC24V	10mA MAX. (Open collector)	14-18AWG.	
PSND	125V	1A	10-16AWG.	
PSWR / PXWR	Input: TB side: DC24V CN side: AC125V / DC30V Output: TB side: AC250V / DC30V CN side: DC24V	Input: 1A (Resistance Inductive load) Output: 3A (Resistance load) 2A (Inductive load)	14-18AWG.	
PSWP / PXWP	Input : TB side: DC24V CN side: DC30V MAX. Output: TB side: DC30V MAX. CN side: DC30V MAX.	10mA MAX. (Open collector)	14-18AWG.	
PSWPX / PXWPX	Input : TB side: DC24V CN side: DC30V MAX. Output: TB side: DC30V MAX. CN side: DC24V MAX.	Input: 10mA MAX. (Open collector) Output: 100mA MAX. (Open collector)	14-18AWG.	
PSTD	125V	1A	14-18AWG.	

*Voltage rating of P/N "8" and "8-F" are 60V.

CSA Compliant Connectors

P/N		Mounting Direction	Part Number	Note
5	Fujitsu	V/B	FCN - 604Q064-G/M	Only 64p is capable
		H	FCN - 605Q064-G/M	
6		V/B	FCN - 364P040-AU	Only 40p is capable
		H	FCN - 365P040-AU	
8	HTK	V/B	MR- () RMD2	() : Connector pin number
8-F	Honda Tsushin Kogyo	V/B	MR- () RFD2	
9			Obsolete	
10	Yamaichi Electronics	V/B	FAB- () 01-1204-OBS	() : Connector pin number
		H	FAB- () 01-1202-OBS	
14	3M	V/B	3 () - 6002LCSC	() : Pin number code 662: 10P, 408: 16P, 428: 20P, 440: 30P, 431: 34P, 432: 40P 433: 50P
		H	3 () - 5002LCSC	
3A	JAE	V	DA-15P-T-N	
			DB-25P-T-N	
			DC-37P-T-N	
4A	Hirose Connectors	V	SDAB-15P	
			SDBB-25P	
			SDCB-37P	

★ The products and specifications described in this manual or the content and presentation of the manual may be changed without notice to improve the product and/or the manual.



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