

ADwin - Pin Assignments

last update:

2021-11-18

On the following pages you will find the pin assignments for all **ADwin-light-16**, **ADwin-Gold (II)** and **ADwin-Pro (II)** systems.

Unless otherwise specified, all connectors are carried out as female sockets.

Light-16 (Rev. A): EURO, EXT, PCI

L16{-CO1}
power supply
VG96 (backplane)

L16-DIO1
counter
CAN

Light-16 (Rev. B): EURO, EXT, PCI

L16{-CO1}{-PWM1}
LS-Bus
power supply
VG96 (backplane)

L16-DIO1{-PWM1}
LS-Bus
counter
CAN{-LS}

L16-DIO2{-PWM1}
LS-Bus
counter

L16-DIO3{-CO1}{-PWM1}
LS-Bus
counter

X-A20

CAN-1/2
RS232
LS bus
power supply
Analog-Digital
DIO
CNT

Gold with ENET/USB (Rev. B)

Gold, Rev. B1: CONN. 1...4
power supply

Gold, Rev. B2: CONN. 1...4
power supply

Gold, Rev. ≥B3: CONN. 1...4
power supply

Gold-D

ANALOG IN/OUT
DIO00-15 (IN) / 16-31 (OUT)
power supply

CO1, ..., CO4, CO POWER IN
COM1, COM2
CAN{-LS}

Gold II

ANALOG IN, ANALOG OUT
DIO00-15 (IN), DIO16-31 (OUT)
CO1, ..., CO4, CO POWER IN
CO1&2 (TTL), CO3&4 (TTL)
PWM1-6 (TTL)
COM1, COM2, CAN1, CAN2
PROFIBUS DP-V1
LS1, LS2 (LS bus)
power supply

Pro: ADC/DAC modules

Aln-32/1x (x = 2, 4, 6) (s.-e. / diff.)
Aln-8/1x-D (x = 2, 4, 6)
Aln-F-n/1x-D (n = 4, 8; x = 2, 4, 6)
Aln-16/14-C
AOut-n/16-D (n = 4, 8)
AO-16/8-12

Pro: DIO modules

DIO-32 (Rev. A, Rev. B)
OPT-16
REL-16
TRA-16
PWM-4{-I}
COMP-16

OPT-16 (with Phoenix connector)
TRA-16 (with Phoenix connector)

Pro: counter modules

CNT-VR4{-L}{-I}
CNT-16/16{-I}
CNT-8/32{-L/-I}

CO4{-T/-D/-I}
CNT-VR2PW2{-I}
CNT-PW4{-I}
CNT-16/32{-I}

Pro: EXT modules

PT100 (Lemo), PT100-n-D (n = 4, 8)
TC-n-J{-K}-D (n = 4, 8, 16)
MB-8{-D}, 5B/8B module sockets

RS-232, RS-422, RS-485
CAN{-LS}
PROFI-DP-SL
LS-2
INTER-SL

Pro: miscellaneous

Pro-Mini (power supply)
Pro-DC (power supply)
VG96 (backplane)

Pro II

Aln-32/18 (s.-e. / diff.)
Aln-8/18
Aln-16/18-8B
Aln-F-n/1x-D (n = 4, 8; x = 4, 6)
Aln-F-n/18-D (n = 4, 8)
Aln-16/18-C

RTD-8 (2/3/4 wire)
SG-4/18

AOut-n/16-D (n = 1, 4, 8)

OPT-16, OPT-32-24V
COMP-16
TRA-16{-G}
REL-16
DIO-32, DIO8-D12
PWM-16{-I}

MIO-4 (s.-e. / diff.)
MIO-4-ET1
MIO-D12

CNT{-T/-D/-I}

RS-232, RS-485, RS422-4
CAN{-LS}, LIN, FlexRay, PROFI-SL
ARINC-429
SENT-n{-OUT} (n = 4, 6)

SPI{-T/-D}

VG96 (backplane)
Pro II-DC (power supply)

adapter sets (AS1-AS10)

AS1, AS2, AS3, AS4, AS5,
AS6, AS7, AS8, AS9, AS10

cable sets (CS1-CS11)

CS1, CS2, CS3, CS4, CS5,
CS6, CS7, CS8, CS9, CS10, CS11

busses and comm. interfaces

RS-232 (9- & 25-pole), RS-4xx
USB
Ethernet (RJ-45)
ISA bus slot
PCI bus slot

Legende:

Around the schematically shown connector (either horizontally or vertically oriented) are the signal designators, according to the onion skin principle, arranged from inside to outside:

1. At differential signal comes first an indication of polarity – at single-ended signals (generally the digital I/Os with TTL level and the analog outputs) this is omitted.
2. Subsequently follows the signal name. In case the signal name can be assigned to a function unit, i.e. a counter (C), an interface (SPI, SSI, ...), etc. the function unit will be named first immediately followed by the signal name in squared brackets.
3. At connections with possibly multiple functions additional punctuation marks are applied indicating an AND or OR conjunction of those functions as well as indicating that an optional add-on might be required.
 - , Separates signals, which are available at that pin simultaneously.
 - / Separates signals, which are not(!) available simultaneously – OR function – i.e. either requires a hardware add-on or can be selected by software.
 - (+) Positive or „+“ input at differential inputs.
 - (-) Negative or „-“ input at differential inputs.
 - [] Contains the signal name in case it belongs to a function unit.
 - () Contains the signal name when available optionally, i.e. only through an add-on.
 - : Indicates a range / a quantity, „from ... to ...“.

Abbreviations:

ADC	Analog to Digital Converter
AGND	Analog GrouND
ARINC	Aeronautical Radio INC orporated
CAN	Controller Area Network
CLK	CLocK (Takt)
CLR	CLeaR (Löschen)
CMP	CoMP arator
Cn	Counter (Zähler), n = # des Zählers
DAC	Digital to Analog Converter
DGND	Digital GrouND
DIN	Digital IN put
DIO	Digital Input/Output
DIR	DIR ection
DOUT	Digital OUT put
DTA	DaTA
GND	GrouND
LIN	Local Interconnect Network
LT	LaTch
MISO	Master In Slave Out
MOSI	Master Out Slave In
n.c.	not connected
PW	Pulse Width (counter input)
PWM	Pulse Width Modulation
PWMOUT	Pulse Width Modulation OUT put
SCLK	Serial CLocK
SENT	Single Ended Nibble Transmission
SGND	Signal GrouND
SHIGH	Signal HIGH
SLOW	Signal LOW
SPI	Serial Peripheral Interface
TTL	Transistor-Transistor Logik
WDOUT	WatchDog OUT put

Imprint:

Jäger Computergesteuerte Messtechnik GmbH
Rheinstr. 2-4
D-64653 Lorsch
Germany

Telefon: +49 (0)6251-96 32-0
Telefax: +49 (0)6251-96 32-99

E-Mail: info@ADwin.de
Internet: <http://www.ADwin.de>

Authorized CEO: Hubert Morgenstern
Registration court: Amtsgericht Bensheim
Registration number: B24717
Sales tax ID according to § 27a Value Added Tax Act (UStG): DE 178530689

Supervision of this document:

Concept, contentual editing, layout and technical implementation:
Raimund Rabe, Jäger Computergesteuerte Messtechnik GmbH
E-Mail: rrabe@ADwin.de

Copyright, Disclaimer:

The layout of the document and the used graphics and pictures are protected by copyright. Any utilization beyond the tight limitations of the German Copyright Act without permission of Jäger Computergesteuerte Messtechnik GmbH is illegal and punishable. This applies in particular for copying, translations, microfilming and saving and editing in electronic media.
All information in this document is given with no responsibility for the correctness or sufficiency. Under no circumstances are we assuming any liability for any kind of damage while utilizing the stated informations.

+5Vout <0,1A	40	39	reserved
reserved	38	37	+5Vout <0,1A
	36	35	reserved
	34	33	DGND
EVENT IN	32	31	DIN5,C2[CLK]
DOUT5	30	29	DIN4,C1[CLK]
DOUT4	28	27	DIN3
DOUT3	26	25	DIN2
DOUT2	24	23	DIN1
DOUT1	22	21	DIN0
DOUT0	20	19	(+) ADC11
ADC11 (-)	18	17	(+) ADC09
ADC09 (-)	16	15	(+) ADC07
ADC07 (-)	14	13	(+) ADC05
ADC05 (-)	12	11	(+) ADC03
ADC03 (-)	10	9	(+) ADC01
ADC01 (-)	8	7	(+) ADC15
ADC15 (-)	6	5	(+) ADC13
ADC13 (-)	4	3	DAC2
[AGND]DAC	2	1	DAC1

L16

(optional dual-inline male conn., for internal wiring, D-sub-conn. omitted)

reserved	37	19	+5Vout <0,1A
-12Vout <0,1A	36	18	+12Vout <0,1A
	35	17	DGND
EVENT IN	34	16	DIN5,C2[CLK]
DOUT5	33	15	DIN4,C1[CLK]
DOUT4	32	14	DIN3
DOUT3	31	13	DIN2
DOUT2	30	12	DIN1
DOUT1	29	11	DIN0
DOUT0	28	10	(+) ADC11
ADC11 (-)	27	9	(+) ADC09
ADC09 (-)	26	8	(+) ADC07
ADC07 (-)	25	7	(+) ADC05
ADC05 (-)	24	6	(+) ADC03
ADC03 (-)	23	5	(+) ADC01
ADC01 (-)	22	4	(+) ADC15
ADC15 (-)	21	3	(+) ADC13
ADC13 (-)	20	2	DAC2
[AGND]DAC	19	1	DAC1

L16-PCI

	c	b	a	a	b	c
1				+5V *	+5V *	+5V *
2				-	-	-
3				-	-	-
4				-	-	-
5				-	-	-
6				-	-	-
7				-	-	-
8				-	-	-
9				-	-	-
10				-	-	-
11				-	-	-
12				-	-	-
13				-	-	-
14				-	-	-
15				-	-	-
16				-	-	-
17				-	-	-
18				-	-	-
19				-	-	-
20				-	-	-
21				-	-	-
22				-	-	-
23				-	-	-
24				-	-	-
25				-	-	-
26				-	-	-
27				-	-	-
28				-	-	-
29				-	-	-
30				-	-	-
31				-	-	-
32				DGND *	DGND *	DGND *
	a	b	c			

L16-EURO: VG96

* standard, but position changeable

+5Vout <0,1A	40	39	reserved
reserved	38	37	+5Vout <0,1A
	36	35	reserved
	34	33	DGND
EVENT IN	32	31	DIN5,C1[B]
DOUT5	30	29	DIN4,C1[A]
DOUT4	28	27	DIN3
DOUT3	26	25	DIN2
DOUT2	24	23	DIN1
DOUT1	22	21	DIN0
DOUT0	20	19	(+) ADC11
ADC11 (-)	18	17	(+) ADC09
ADC09 (-)	16	15	(+) ADC07
ADC07 (-)	14	13	(+) ADC05
ADC05 (-)	12	11	(+) ADC03
ADC03 (-)	10	9	(+) ADC01
ADC01 (-)	8	7	(+) ADC15
ADC15 (-)	6	5	(+) ADC13
ADC13 (-)	4	3	DAC2
[AGND]DAC	2	1	DAC1

L16-CO1

(optional dual-inline male conn., for internal wiring, D-sub-conn. omitted)

reserved	37	19	+5Vout <0,1A
-12Vout <0,1A	36	18	+12Vout <0,1A
	35	17	DGND
EVENT IN	34	16	DIN5,C1[B]
DOUT5	33	15	DIN4,C1[A]
DOUT4	32	14	DIN3
DOUT3	31	13	DIN2
DOUT2	30	12	DIN1
DOUT1	29	11	DIN0
DOUT0	28	10	(+) ADC11
ADC11 (-)	27	9	(+) ADC09
ADC09 (-)	26	8	(+) ADC07
ADC07 (-)	25	7	(+) ADC05
ADC05 (-)	24	6	(+) ADC03
ADC03 (-)	23	5	(+) ADC01
ADC01 (-)	22	4	(+) ADC15
ADC15 (-)	21	3	(+) ADC13
ADC13 (-)	20	2	DAC2
[AGND]DAC	19	1	DAC1

L16-PCI-CO1

(optional dual-inline male conn., for internal wiring, D-sub-conn. omitted)

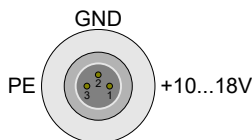
reserved	37	19	+5Vout <0,1A
reserved	36	18	reserved
EVENT IN	35	17	DGND
DOUT5	34	16	DIN5,C2[CLK]
DOUT4	33	15	DIN4,C1[CLK]
DOUT3	32	14	DIN3
DOUT2	31	13	DIN2
DOUT1	30	12	DIN1
DOUT0	29	11	DIN0
ADC11 (-)	28	10	(+) ADC11
ADC09 (-)	27	9	(+) ADC09
ADC07 (-)	26	8	(+) ADC07
ADC05 (-)	25	7	(+) ADC05
ADC03 (-)	24	6	(+) ADC03
ADC01 (-)	23	5	(+) ADC01
ADC15 (-)	22	4	(+) ADC15
ADC13 (-)	21	3	(+) ADC13
ADC13 (-)	20	2	DAC2
[AGND]DAC	19	1	DAC1

L16-EURO/EXT

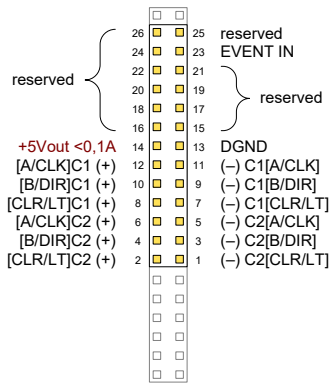
(optional dual-inline male conn., for internal wiring, D-sub-conn. omitted)

reserved	37	19	+5Vout <0,1A
reserved	36	18	reserved
EVENT IN	35	17	DGND
DOUT5	34	16	DIN5,C1[B]
DOUT4	33	15	DIN4,C1[A]
DOUT3	32	14	DIN3
DOUT2	31	13	DIN2
DOUT1	30	12	DIN1
DOUT0	29	11	DIN0
ADC11 (-)	28	10	(+) ADC11
ADC09 (-)	27	9	(+) ADC09
ADC07 (-)	26	8	(+) ADC07
ADC05 (-)	25	7	(+) ADC05
ADC03 (-)	24	6	(+) ADC03
ADC01 (-)	23	5	(+) ADC01
ADC15 (-)	22	4	(+) ADC15
ADC13 (-)	21	3	(+) ADC13
ADC13 (-)	20	2	DAC2
[AGND]DAC	19	1	DAC1

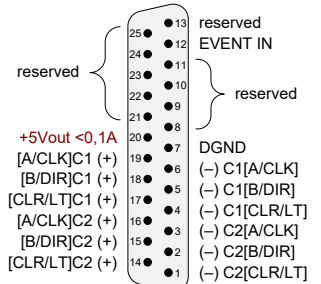
L16-EURO/EXT-CO1



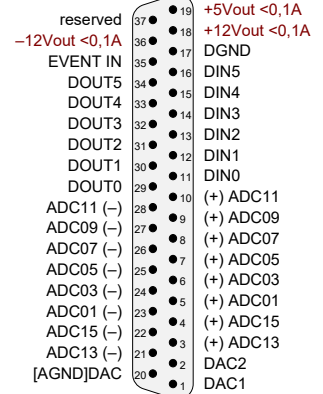
L16-
power supply
(male connector)



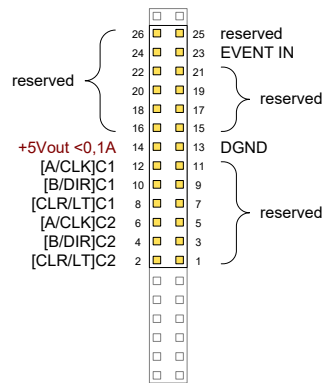
L16-DIO1: Counter (diff.)
(dual-inline male connector)



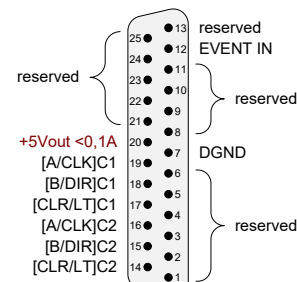
L16-DIO1: Counter (diff.)



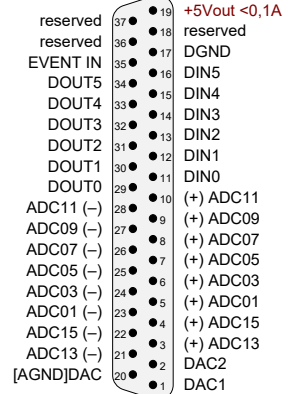
L16-PCI-DIO1



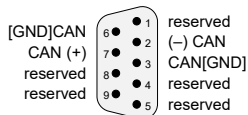
L16-DIO1: Counter (s.-e.)
(dual-inline male connector)



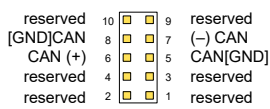
L16-DIO1: Counter (s.-e.)



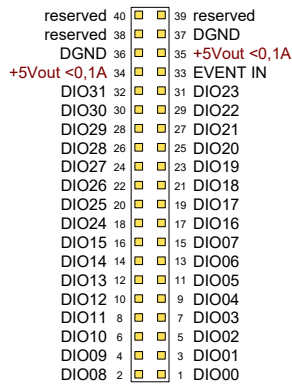
L16-EURO/EXT-DIO1



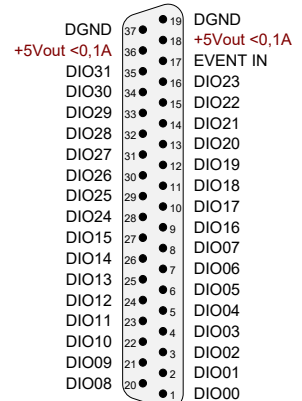
L16-DIO1: CAN
(male connector)



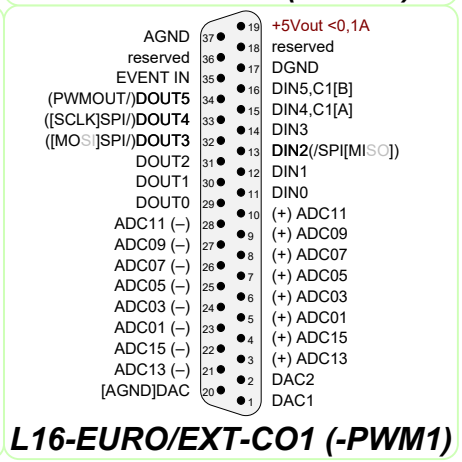
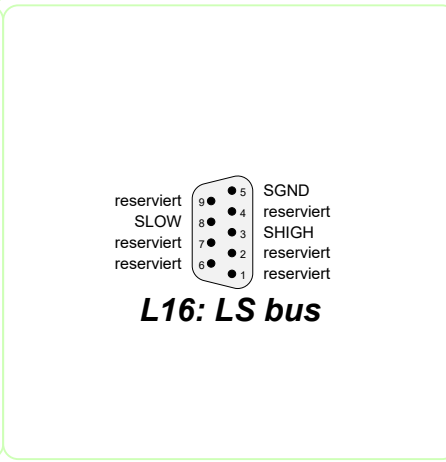
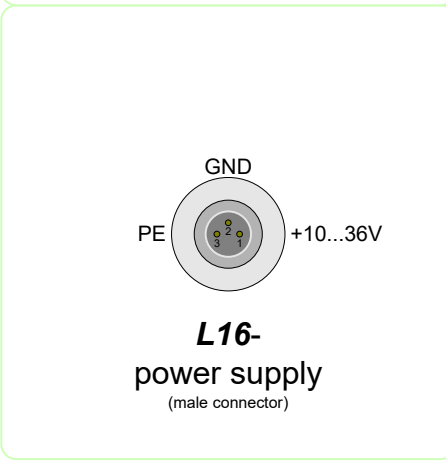
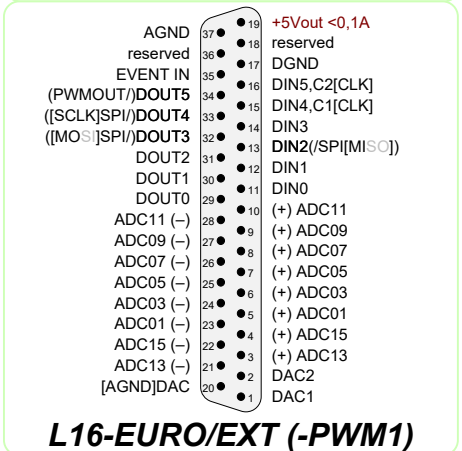
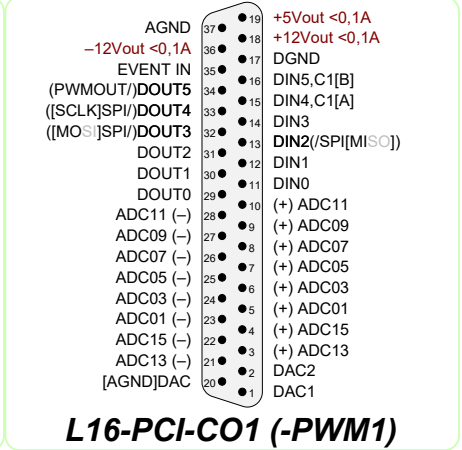
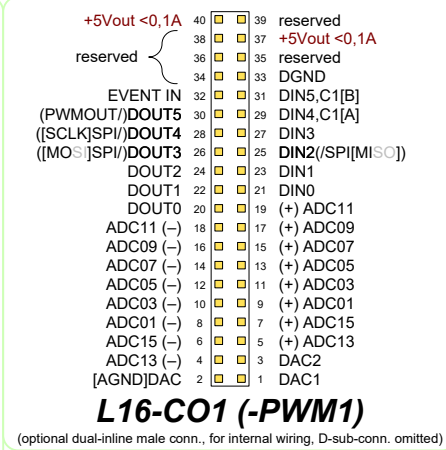
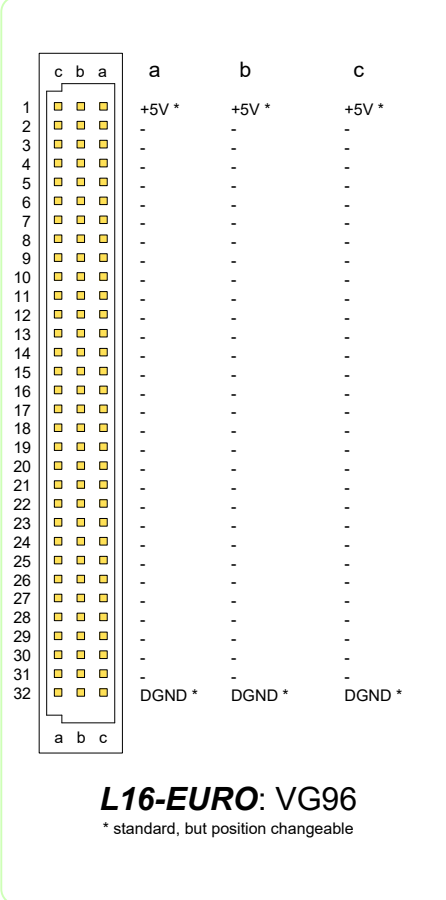
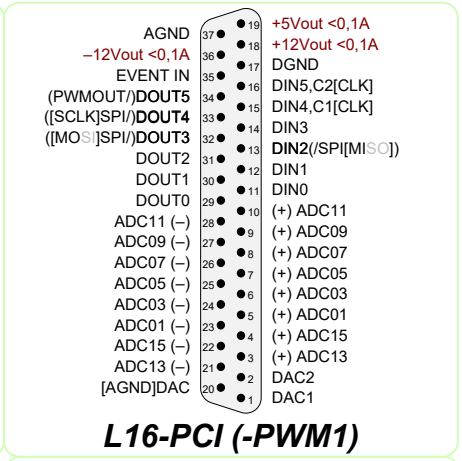
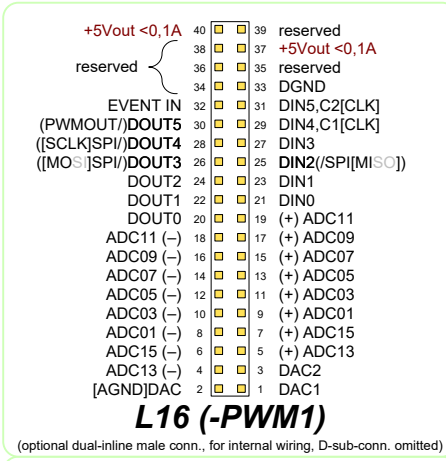
L16-DIO1: CAN
(dual-inline male connector)

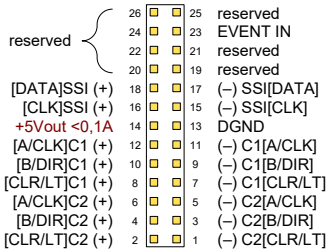


L16-DIO1: DIO
(dual-inline male connector)

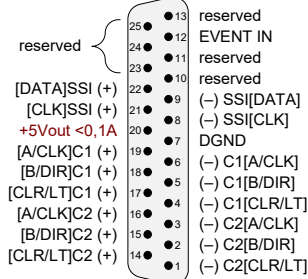


L16-DIO1: DIO

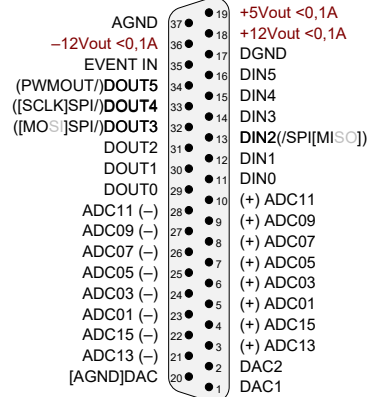




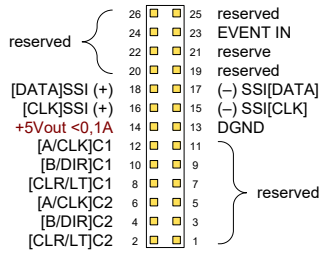
L16-DIO1: Counter (diff.)
(dual-inline male connector)



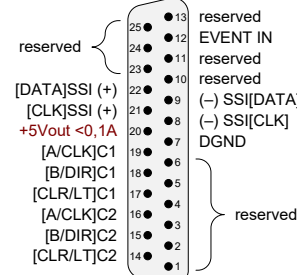
L16-DIO1: Counter (diff.)



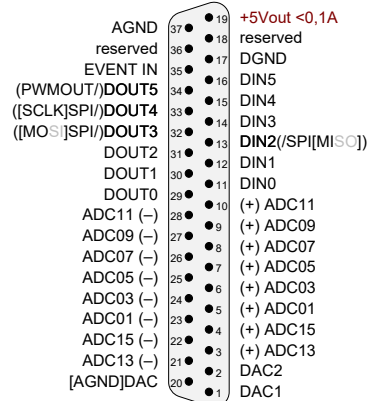
L16-PCI-DIO1 (-PWM1)



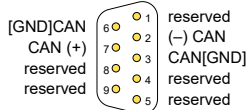
L16-DIO1: Counter (s.-e.)
(dual-inline male connector)



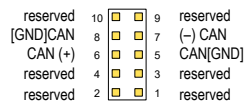
L16-DIO1: Counter (s.-e.)



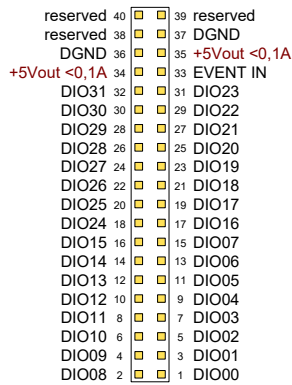
L16-EURO/EXT-DIO1 (-PWM1)



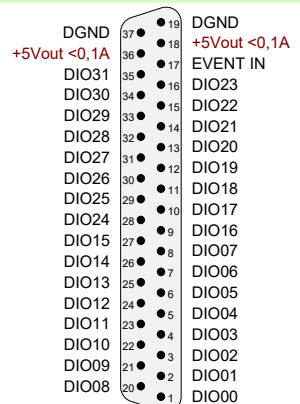
L16-DIO1: CAN
(male connector)



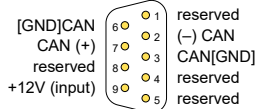
L16-DIO1: CAN
(dual-inline male connector)



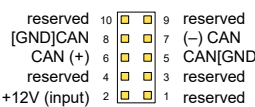
L16-DIO1: DIO
(dual-inline male connector)



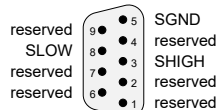
L16-DIO1: DIO



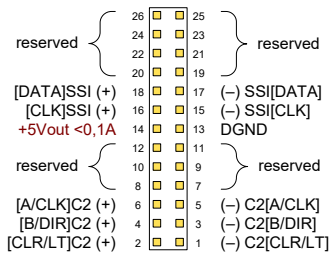
L16-DIO1-LS: CAN-LS
(male connector)



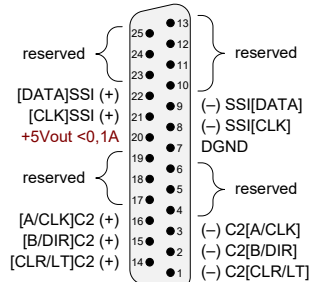
L16-DIO1-LS: CAN-LS
(dual-inline male connector)



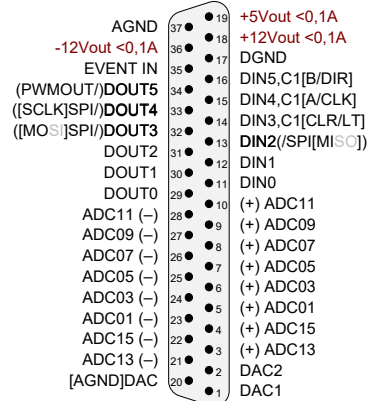
L16: LS bus



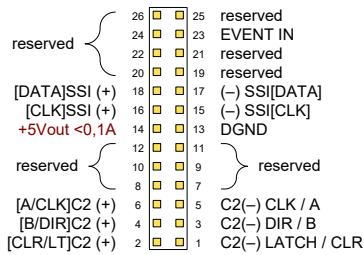
L16-DIO2: Counter
(dual-inline male connector)



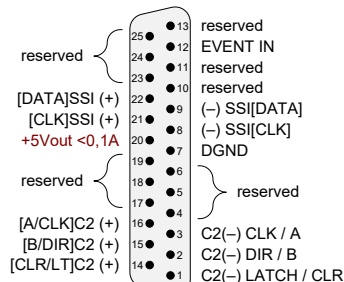
L16-DIO2: Counter (diff.)



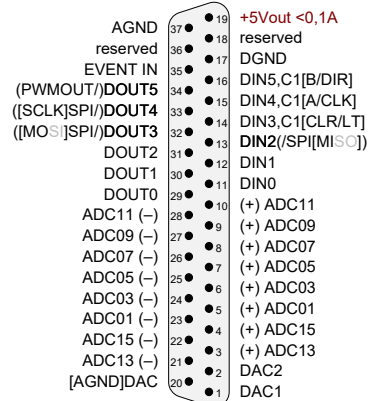
L16-PCI-DIO2 (-PWM1)



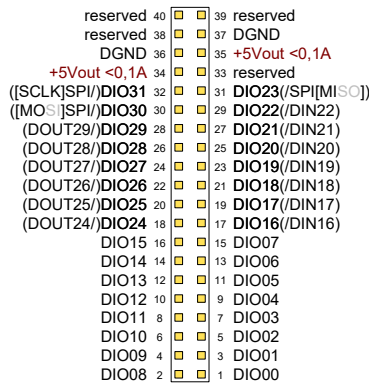
L16-DIO2: Counter
(dual-inline male connector)



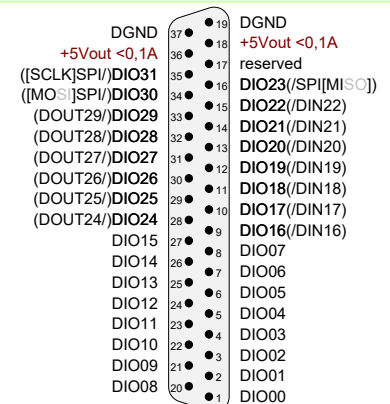
L16-DIO2: Counter



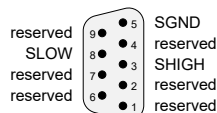
L16-EURO/EXT-DIO2 (-PWM1)



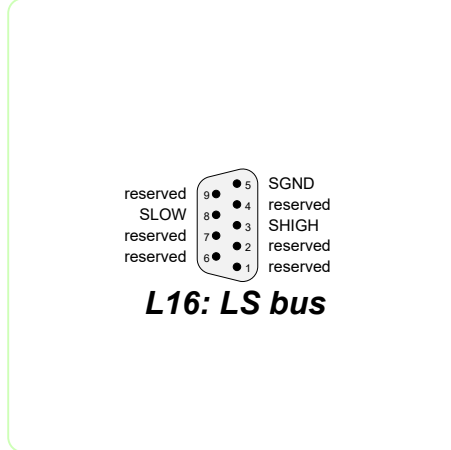
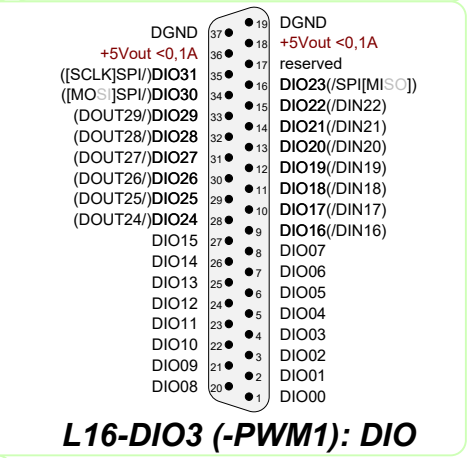
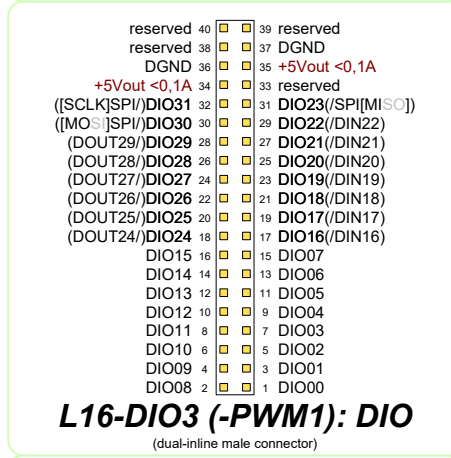
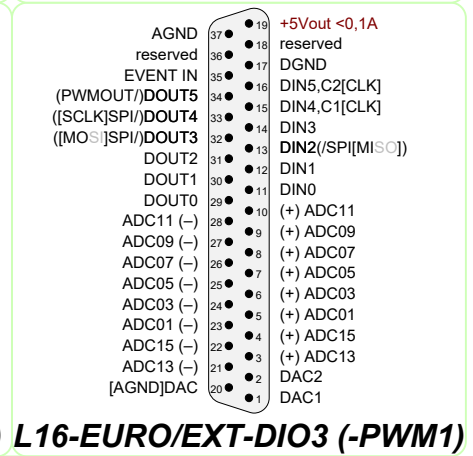
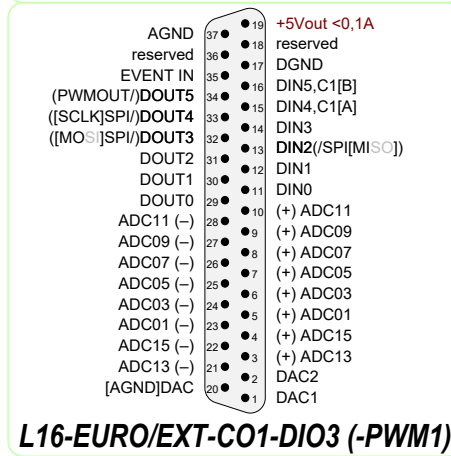
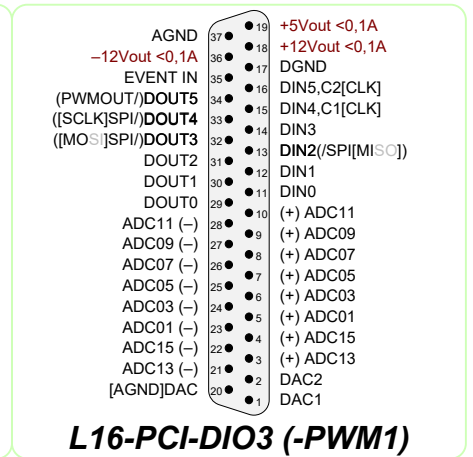
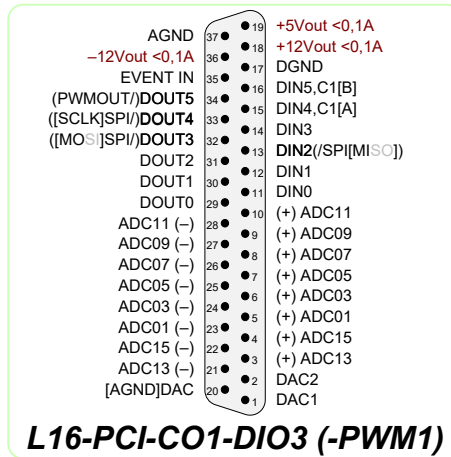
L16-DIO2 (-PWM1): DIO
(dual-inline male connector)

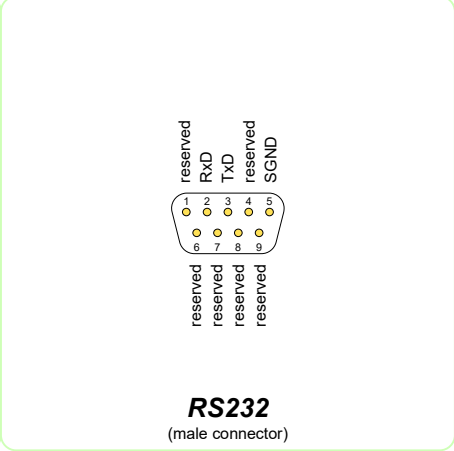
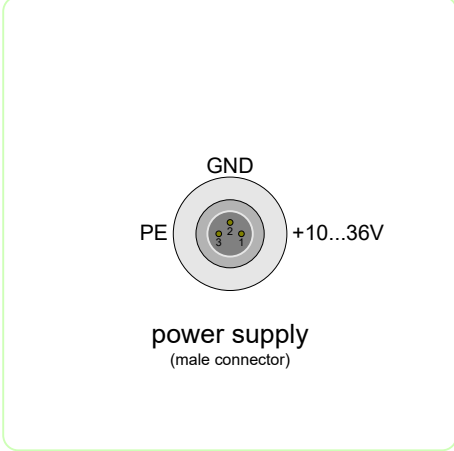
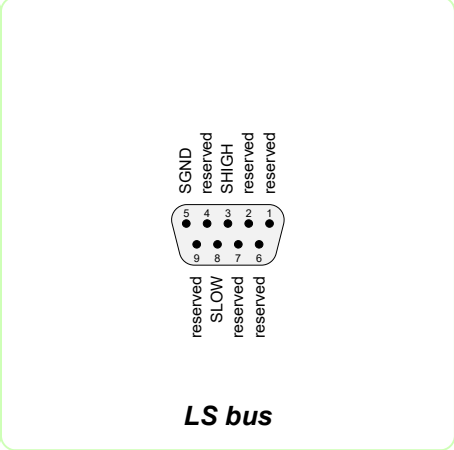
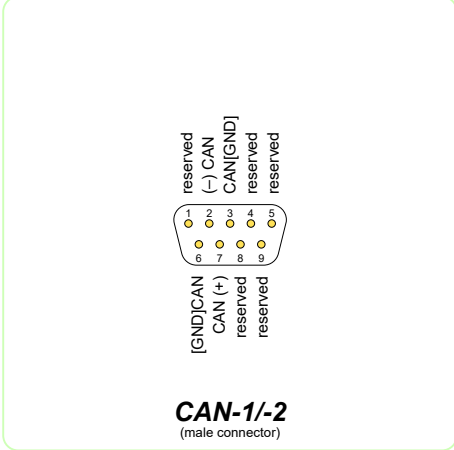
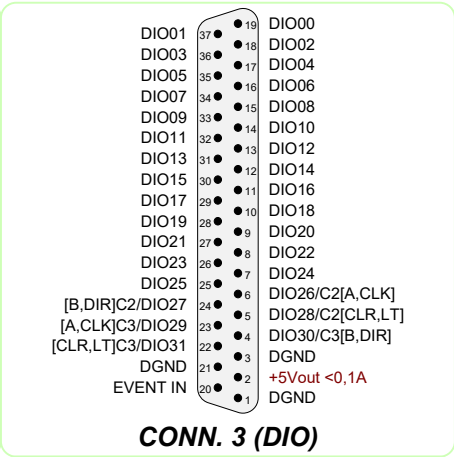
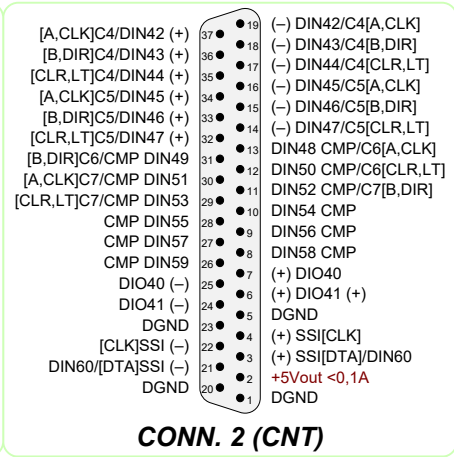
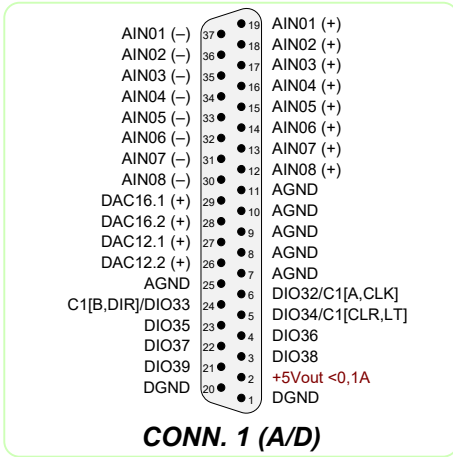


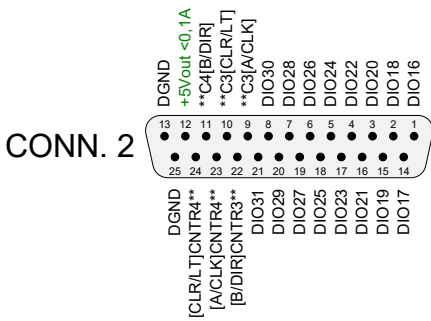
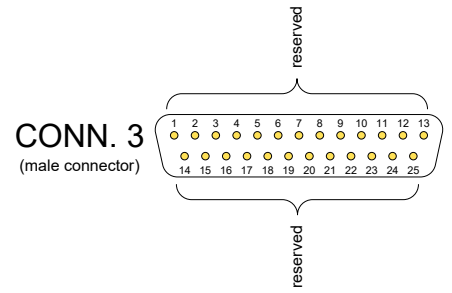
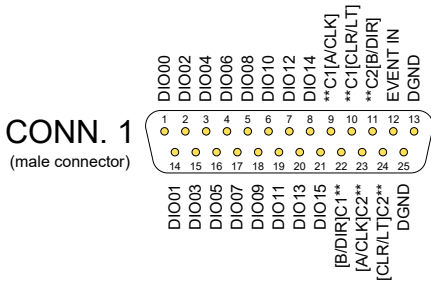
L16-DIO2 (-PWM1): DIO



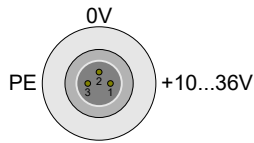
L16: LS bus



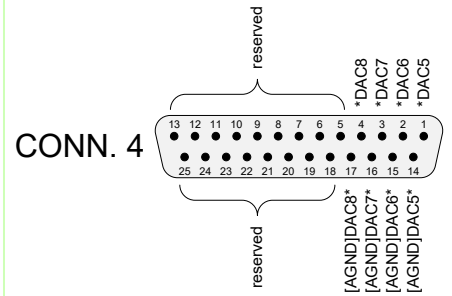




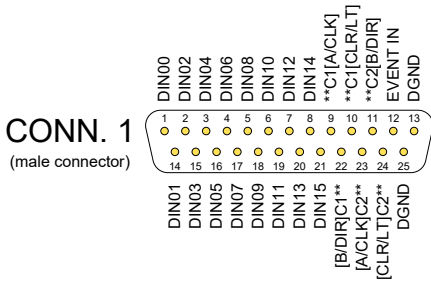
**with CO1 extension



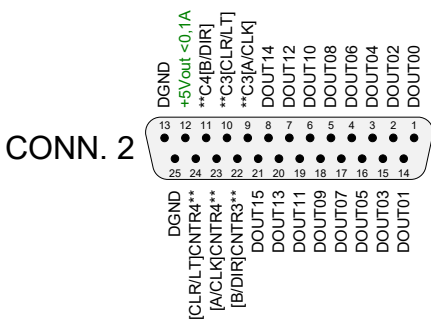
ADwin-Gold
power supply
(male connector)

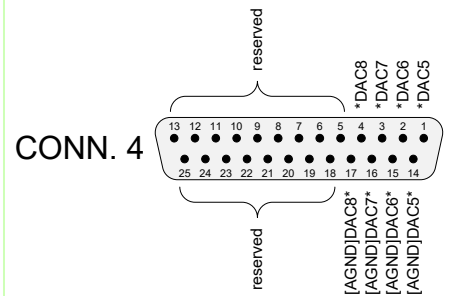
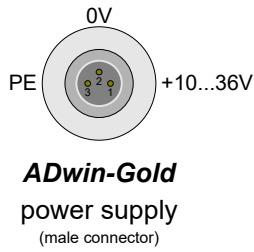
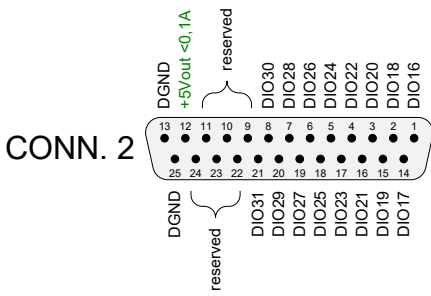
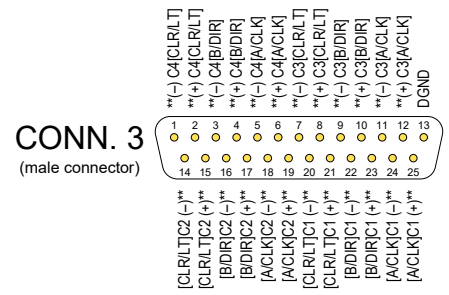
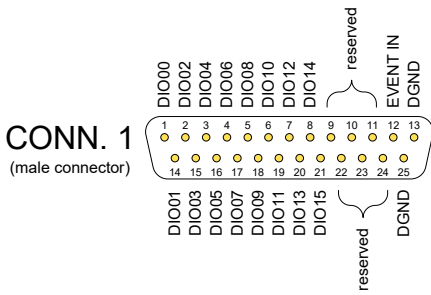


*with DA extension



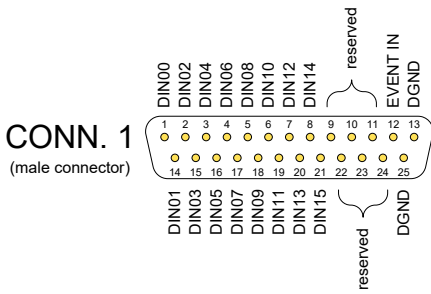
with CONF_DIO(12)



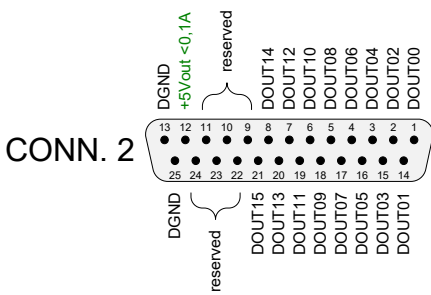


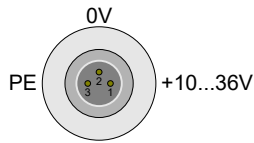
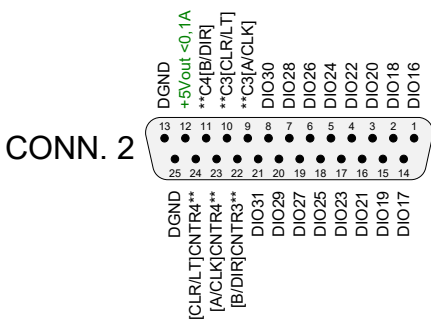
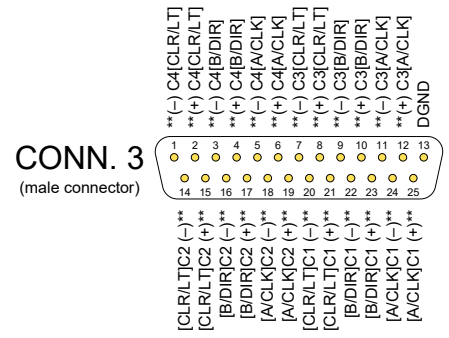
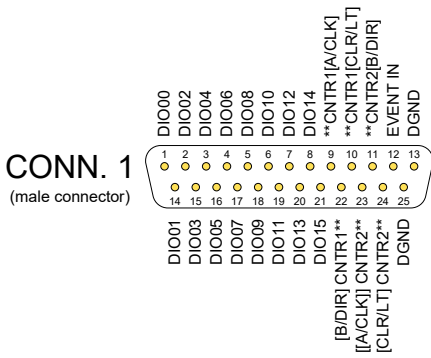
*with DA extension

**with CO1 extension

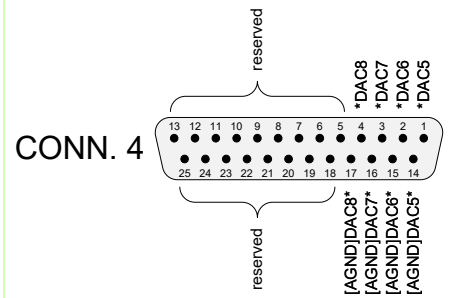


with **CONF_DIO(12)**



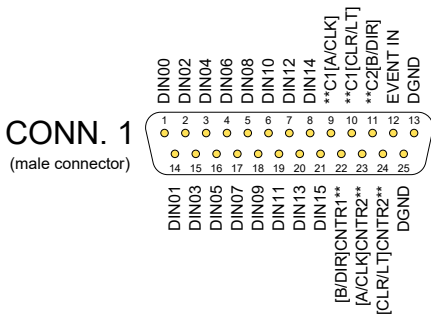


ADwin-Gold
power supply
(male connector)

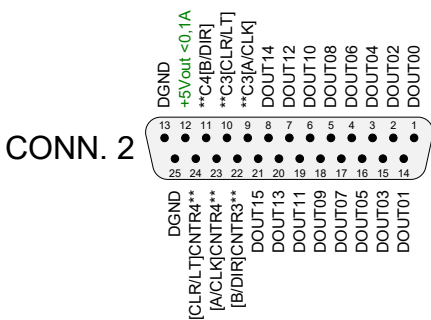


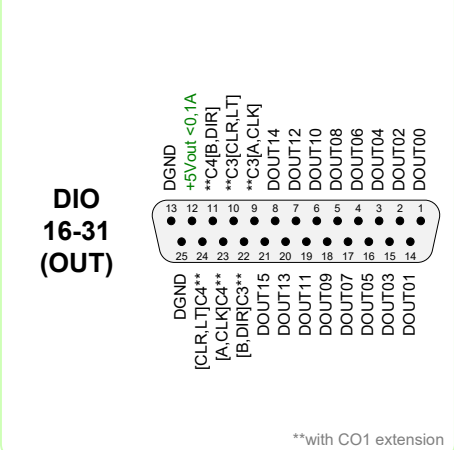
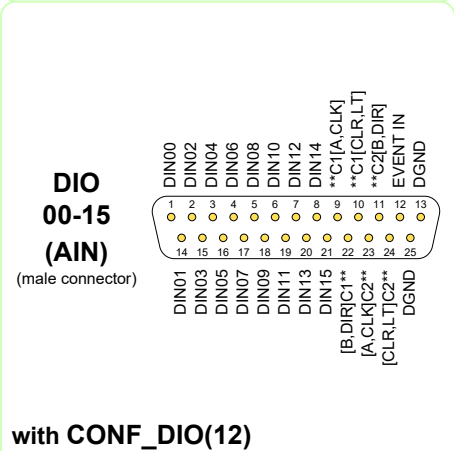
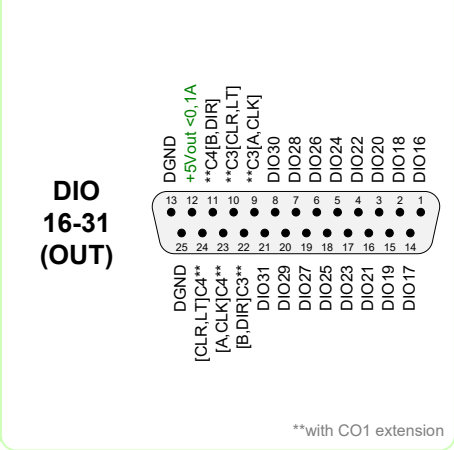
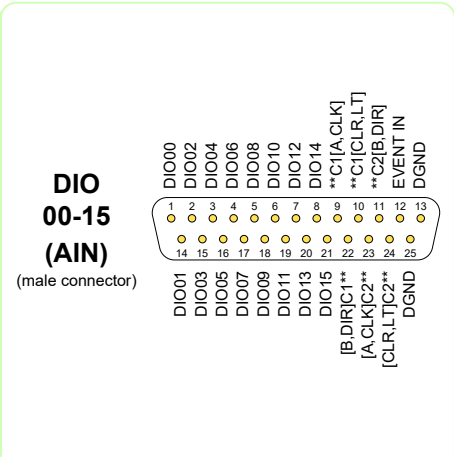
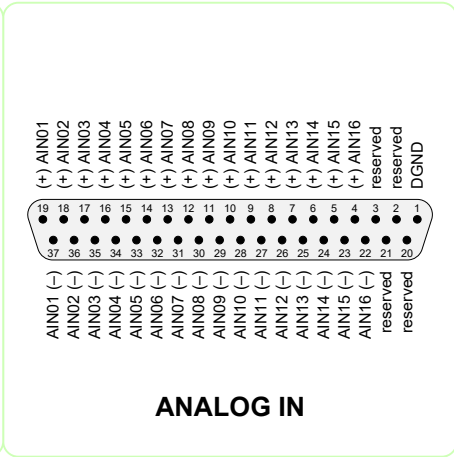
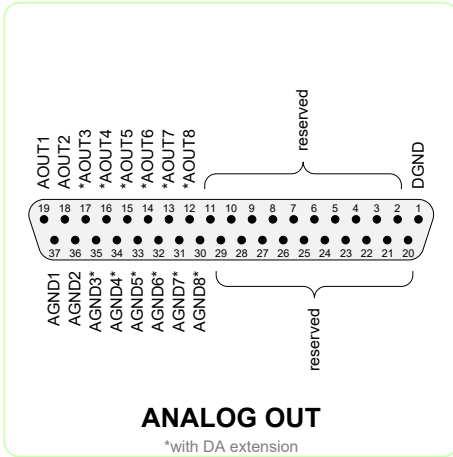
*with DA extension

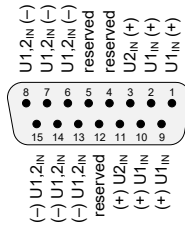
**with CO1 extension



with CONF_DIO(12)

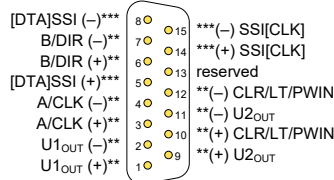




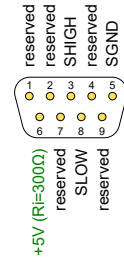


****CO POWER IN**

with CO1 extension *with CAN extension

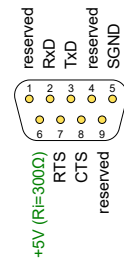


****CO1, ..., CO4**
(male connector)

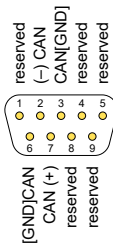


*****COM1, ***COM2**
(RS485) (Stecker)

***with CAN extension

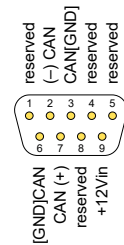


*****COM1, ***COM2**
(RS232) (male connector)



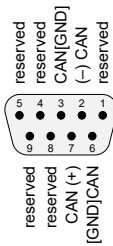
*****CAN 1.1 & ***CAN 2**
(male connector)

***with CAN extension

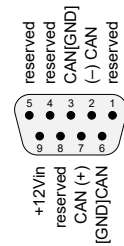


*****CAN-LS 1.1 & 2**
(male connector)

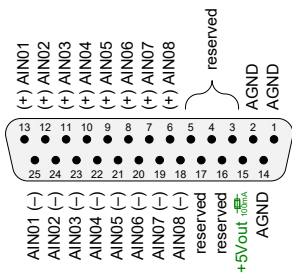
***with CAN extension



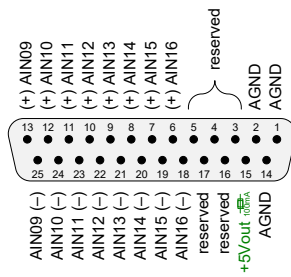
*****CAN 1.2**



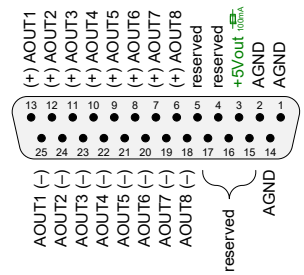
*****CAN LS 1.2**



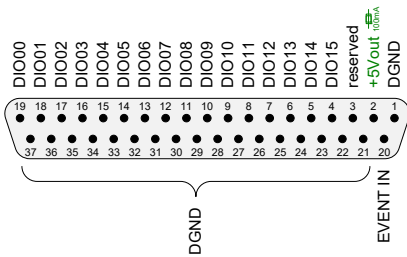
ANALOG IN (1-8)



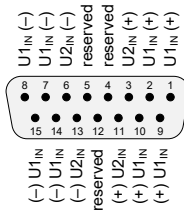
ANALOG IN (9-16)



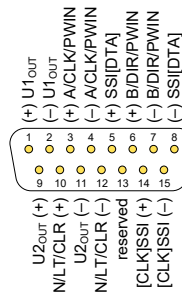
ANALOG OUT



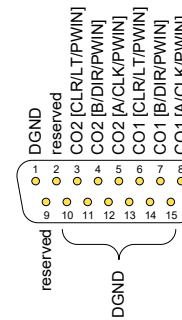
DIO00-15 (IN)



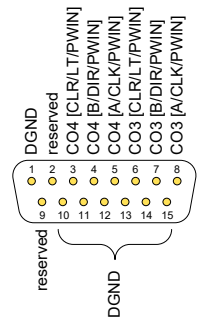
CO POWER IN



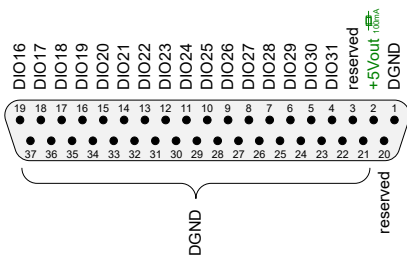
CO1, ..., CO4
(male connector)



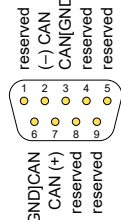
CO1&CO2 (TTL)
(male connector)



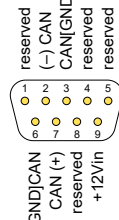
CO3&CO4 (TTL)
(male connector)



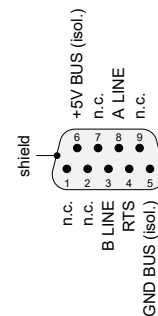
DIO16-31 (OUT)



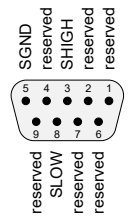
CAN 1&2
(male connector)



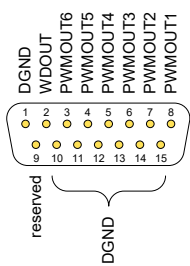
CAN-LS 1&2
(male connector)



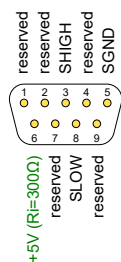
PROFIBUS DP-V1



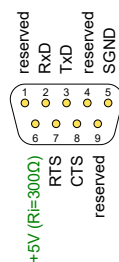
LS 1&2



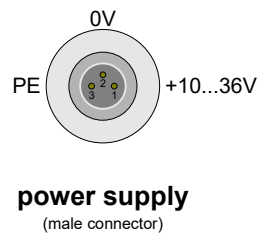
PWM1-6 (TTL)
(male connector)

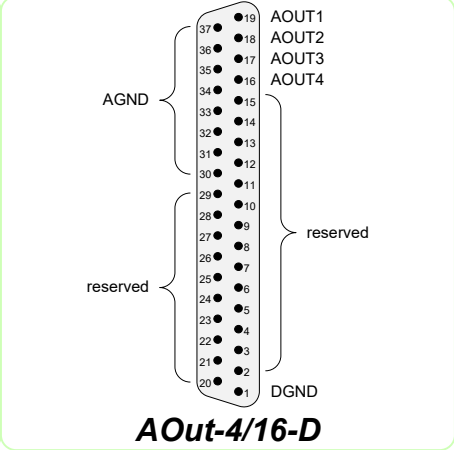
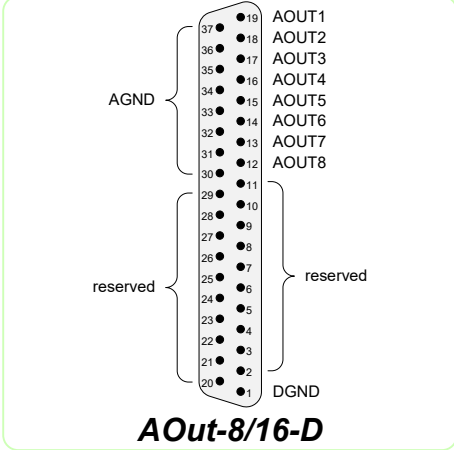
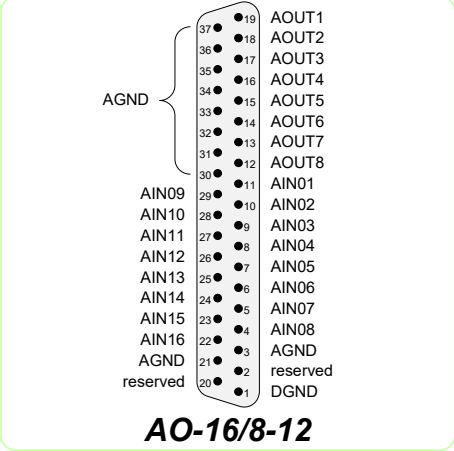
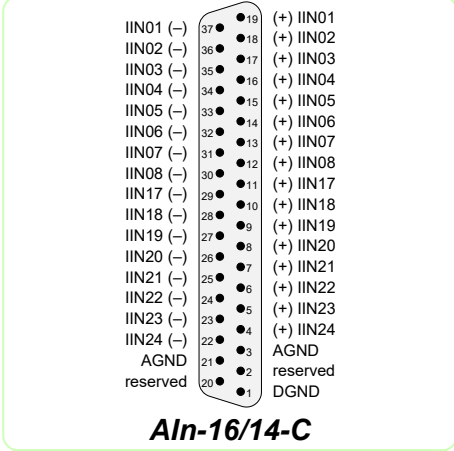
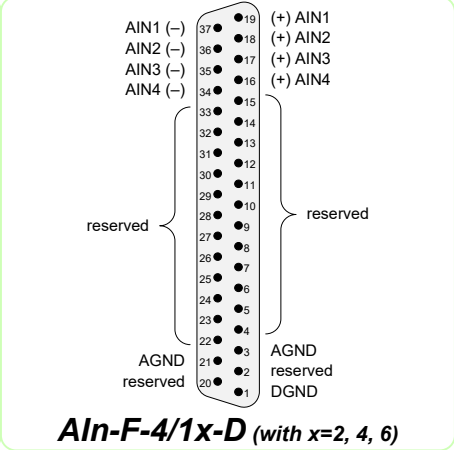
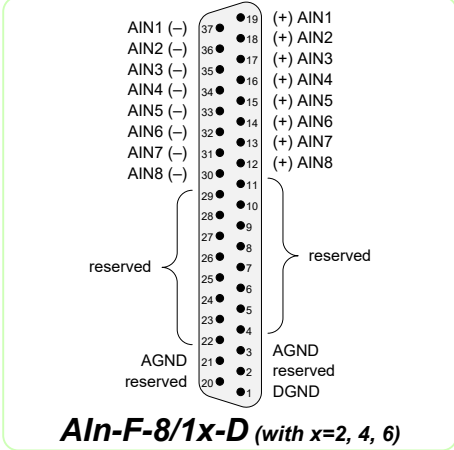
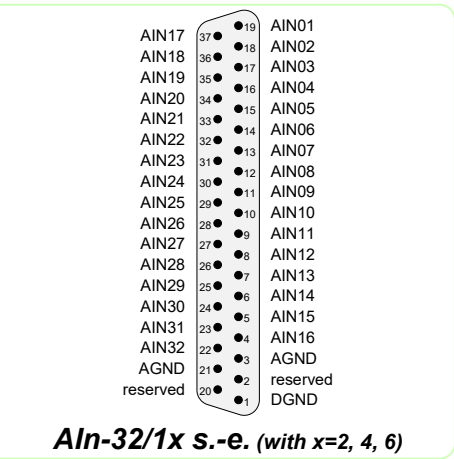
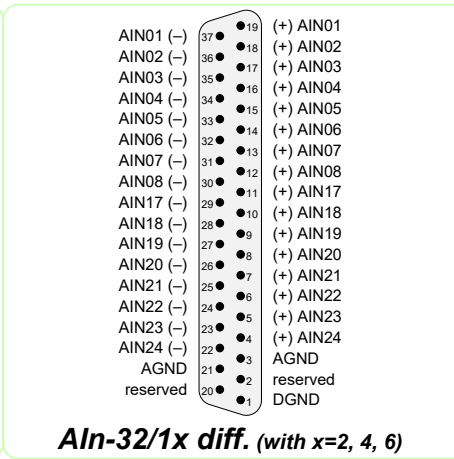
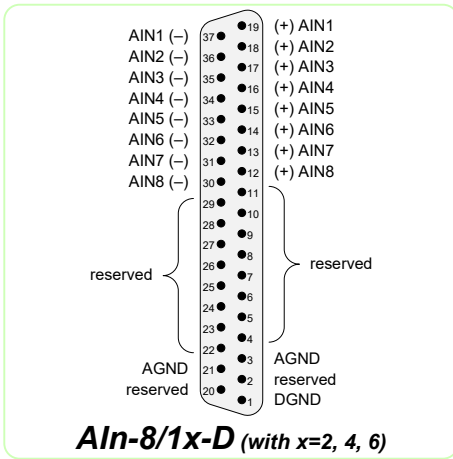


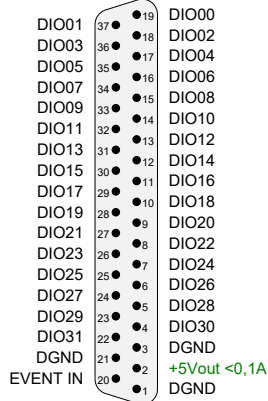
COM1, COM2
(RS485) (male conn.)



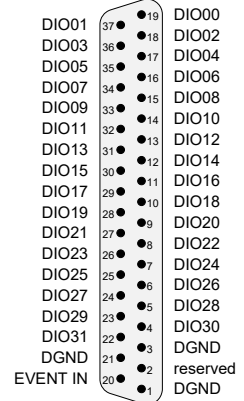
COM1, COM2
(RS232) (male conn.)



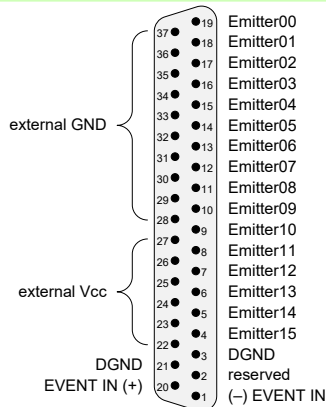




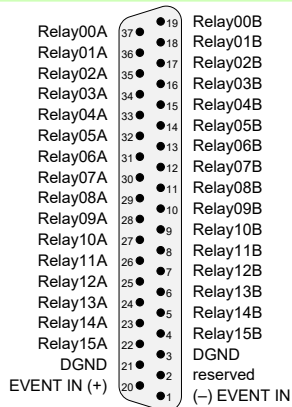
DIO-32, Rev. B



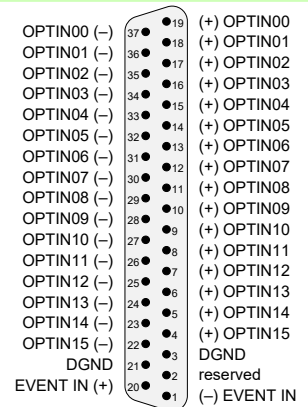
DIO-32, Rev. A



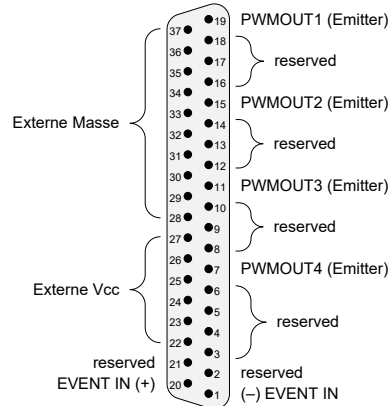
TRA-16



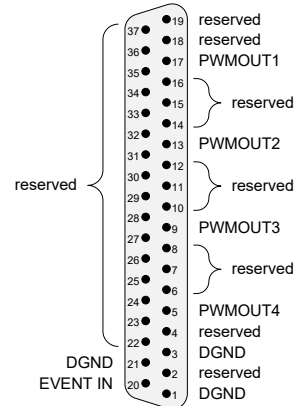
REL-16



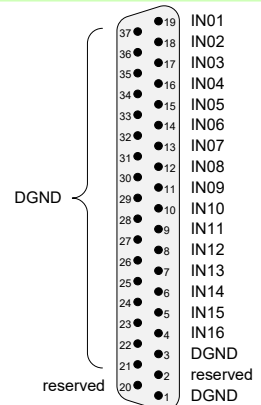
OPT-16



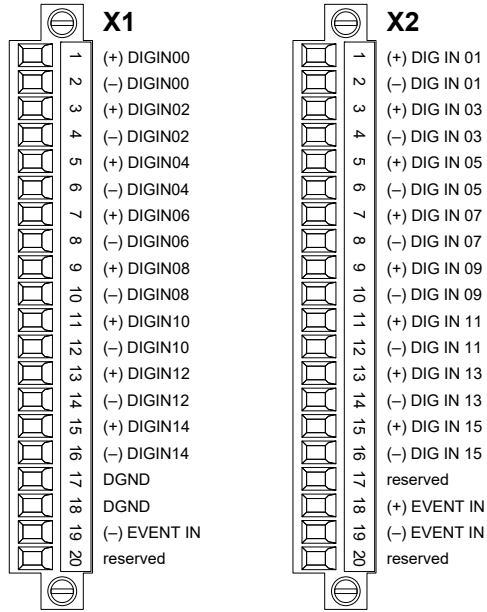
PWM4-I



PWM4

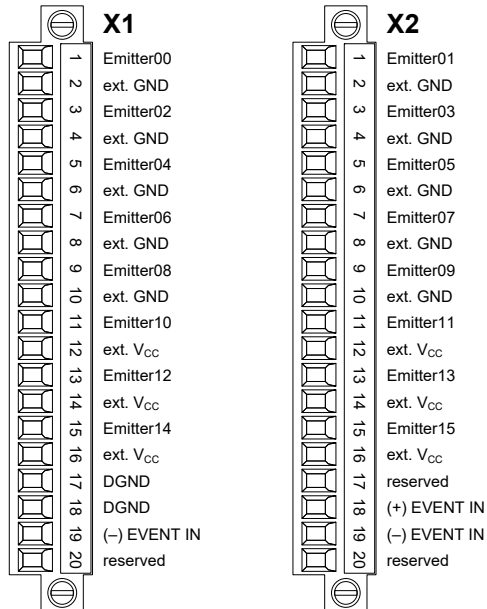


COMP-16



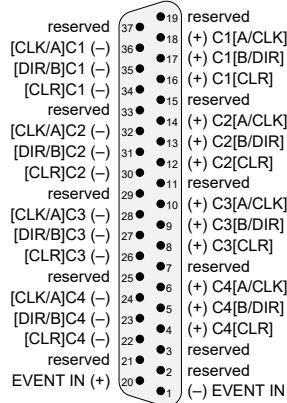
OPT-16

build-in male connector: Phoenix, MCV 1,5/20-GF-3,5
 counter part connector: Phoenix, MC 1,5/20-STF-3,5

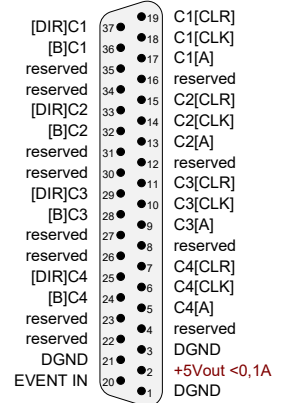


TRA-16

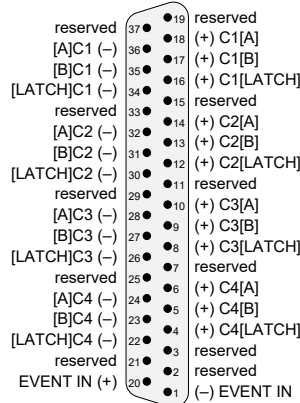
build-in male connector: Phoenix, MCV 1,5/20-GF-3,5
 counter part connector: Phoenix, MC 1,5/20-STF-3,5



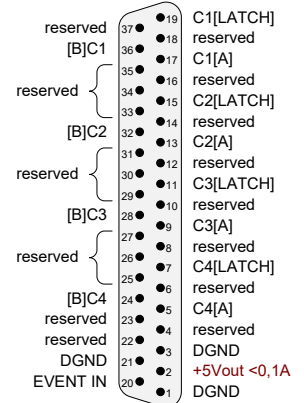
CNT-VR4-I



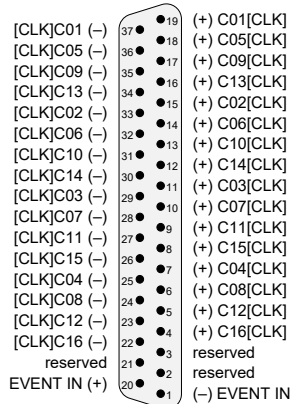
CNT-VR4



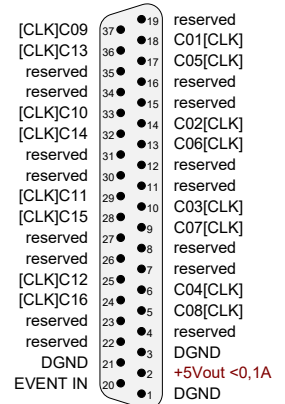
CNT-VR4-L-I



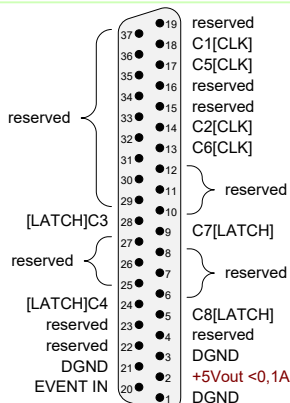
CNT-VR4-L



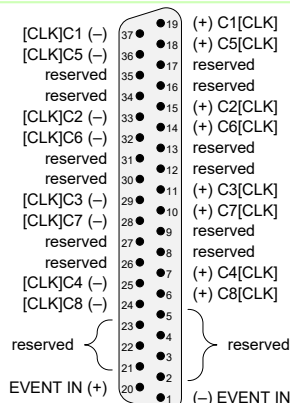
CNT-16/16-I



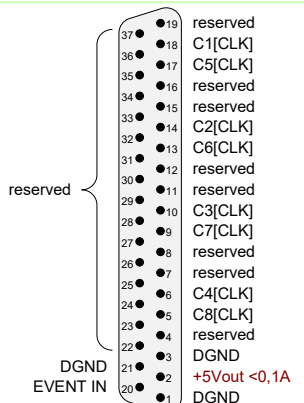
CNT-16/16



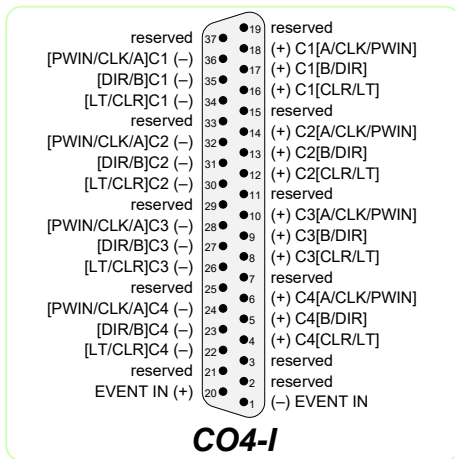
CNT-8/32-L



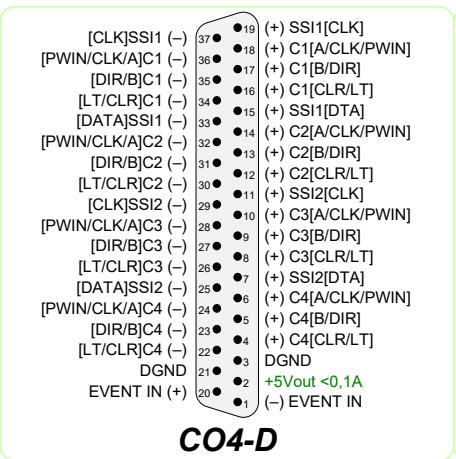
CNT-8/32-I



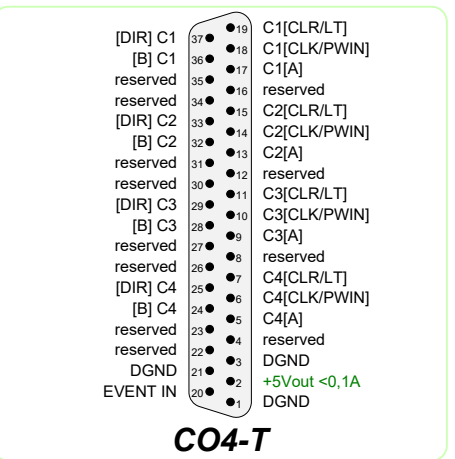
CNT-8/32



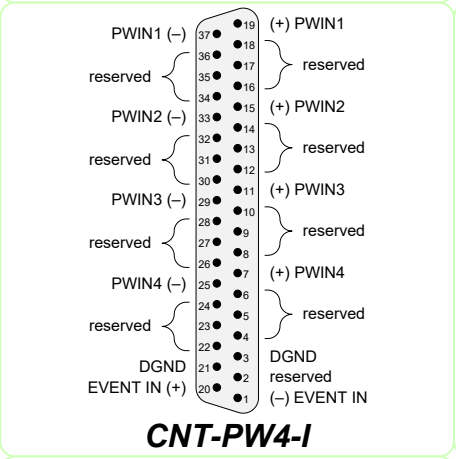
CO4-I



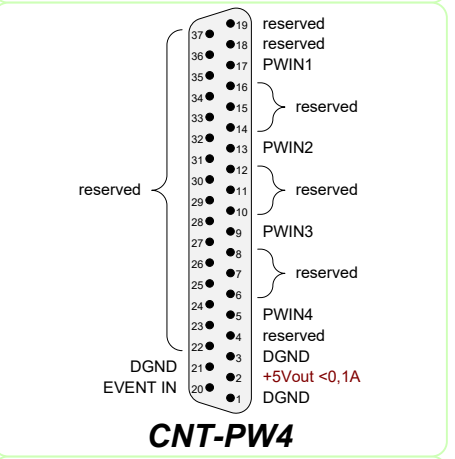
CO4-D



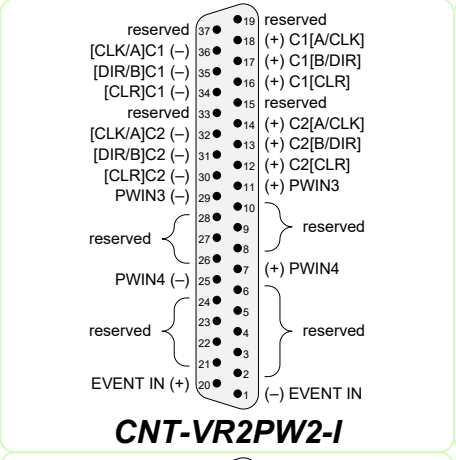
CO4-T



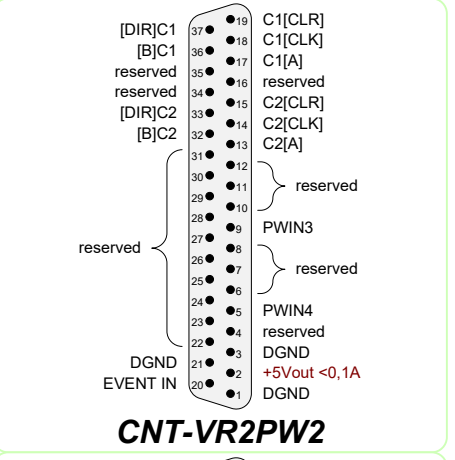
CNT-PW4-I



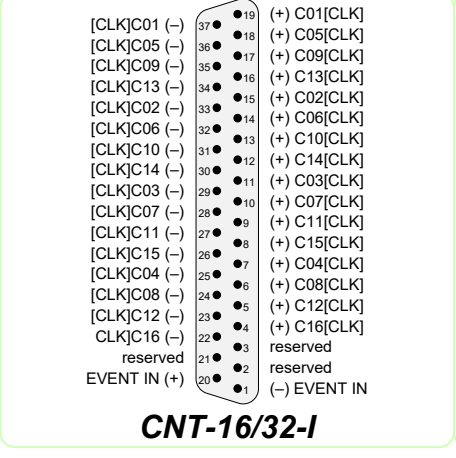
CNT-PW4



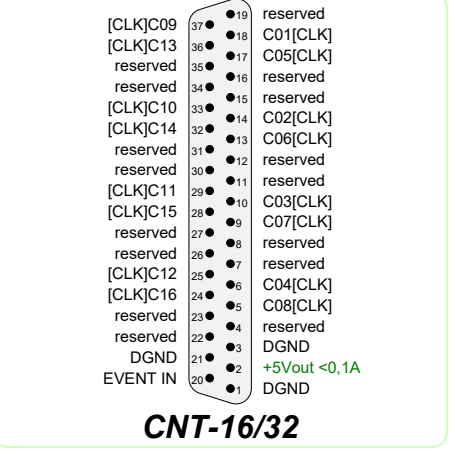
CNT-VR2PW2-I



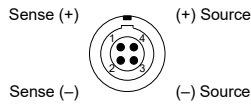
CNT-VR2PW2



CNT-16/32-I

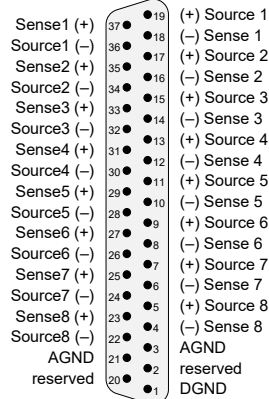


CNT-16/32

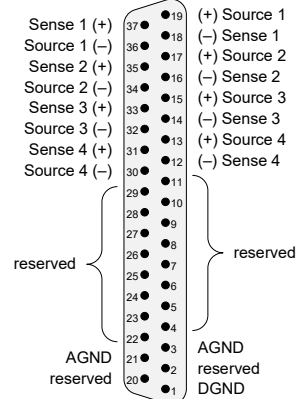


PT100

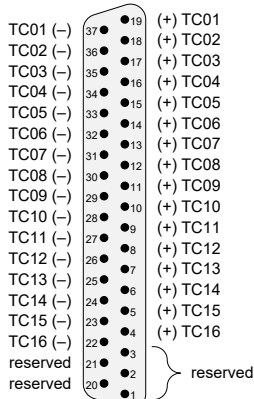
matching cable connector (male):
LEMO, series B, type FGG



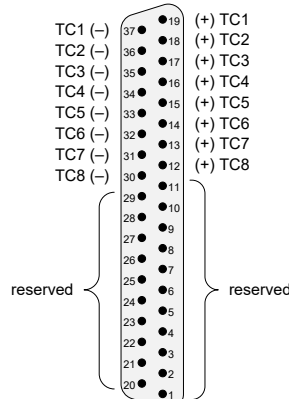
PT100-8-D



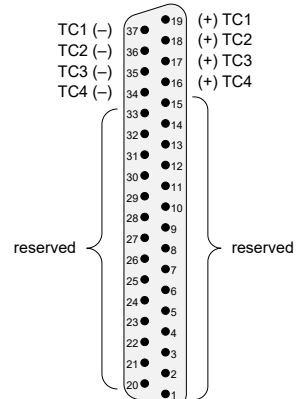
PT100-4-D



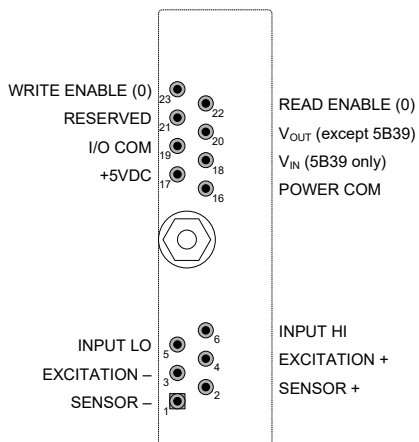
TC-16-J(K)-D



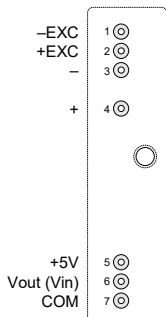
TC-8-J(K)-D



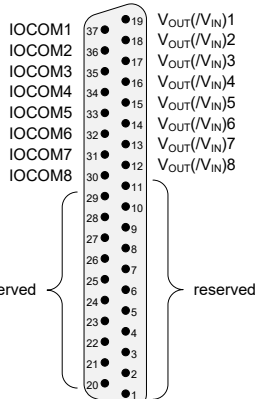
TC-4-J(K)-D



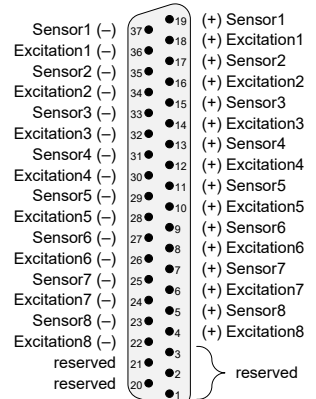
5B module socket
(standard identifier)



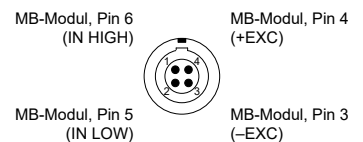
8B module socket
(standard identifier)



MB-8-?D module output

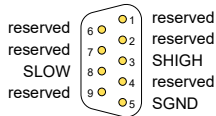


MB-8-D? module input



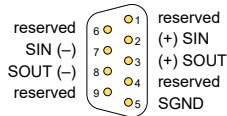
MB-8-L?

matching cable connector (male):
LEMO, series B, type FGG



RS-485
(male connector)

RS485 legend:
SHIGH - Signal High
SGND - Signal Ground
SLOW - Signal Low



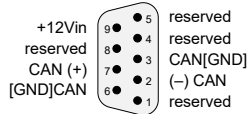
RS-422
(male connector)

RS422 legend:
SIN - Signal In
SOUT - Signal Out
SGND - Signal Ground

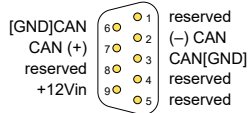


RS-232
(male connector)

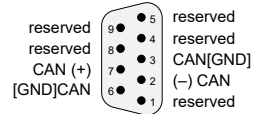
RS232 legend:
DCD - Data Carrier Detect
RxD - Receive Data
TxD - Transmit Data
DTR - Data Terminal Ready
SGND - Signal Ground
DSR - Data Set Ready
RTS - Request To Send
CTS - Clear To Send
RI - Ring Indicator



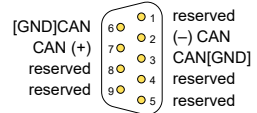
CAN-LS



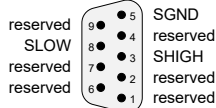
CAN-LS
(male connector)



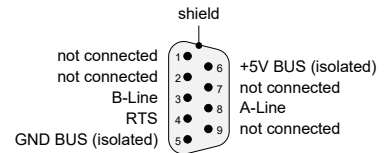
CAN



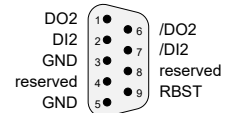
CAN
(male connector)



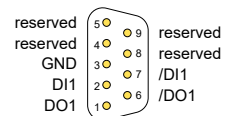
LS-2



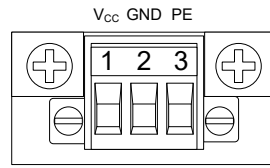
PROFI-DP-SL



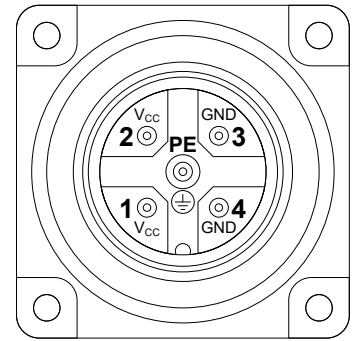
INTER-SL
(BUS-OUT)



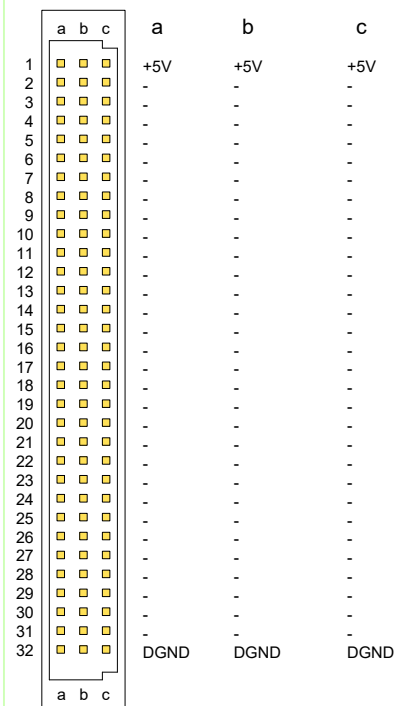
INTER-SL
(BUS-IN, male connector)



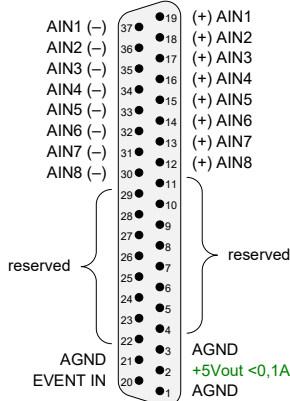
Pro-Mini (power supply)



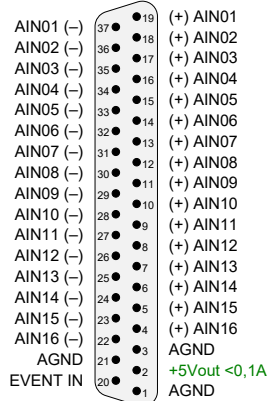
Pro-DC connector (power supply)



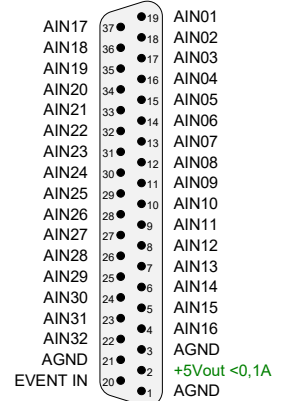
ADwin-Pro, VG96
(backplane)



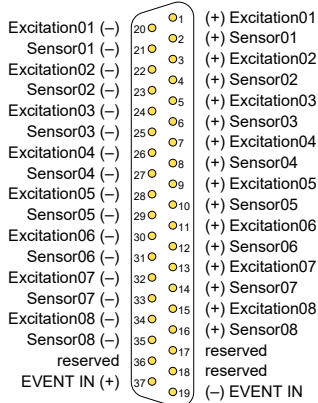
AIn-8/18



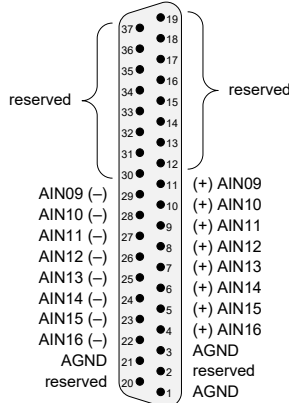
AIn-32/18 diff.



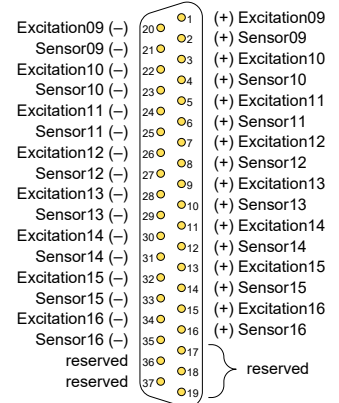
AIn-32/18 s.e.



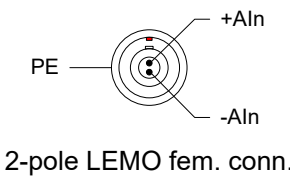
AIn-16/18-8B (8B 1...8, male conn.)



AIn-16/18-8B (AIN 9...16 diff.)

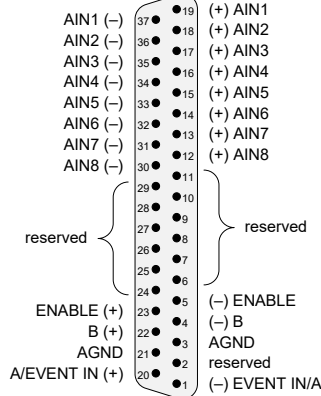


AIn-16/18-8B (8B 9...16, male conn.)

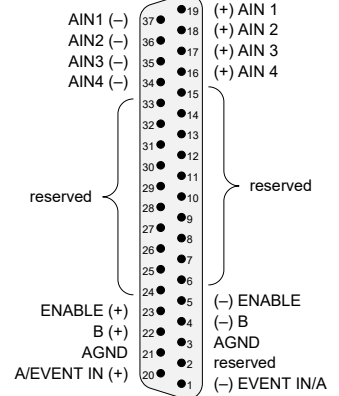


2-pole LEMO fem. conn.

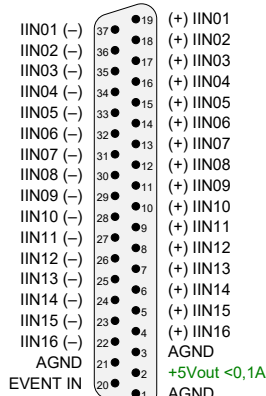
matching cable connector (male):
LEMO, series 00, 2-pole, type FGG



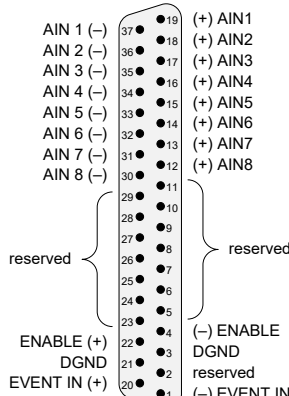
AIn-F-8/1x-D (with x=6)



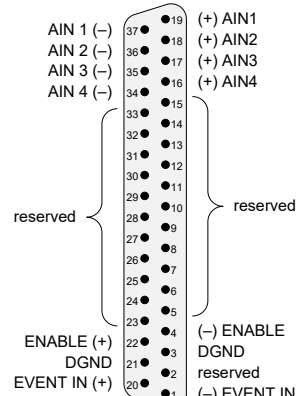
AIn-F-4/1x-D (with x=4)



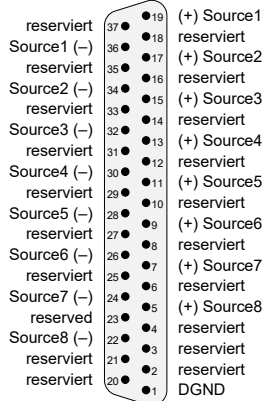
AIn-16/18-C



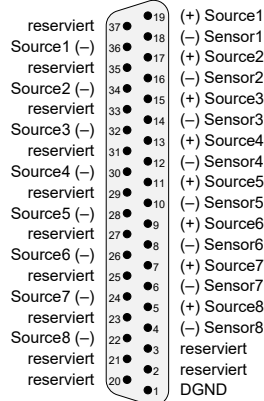
AIn-F-8/18-D



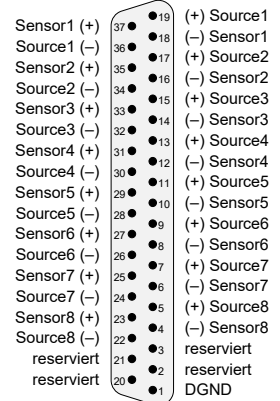
AIn-F-4/18-D



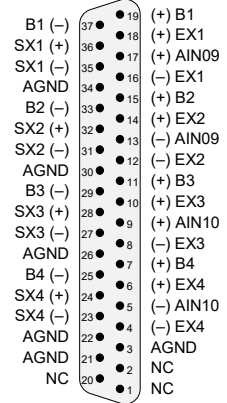
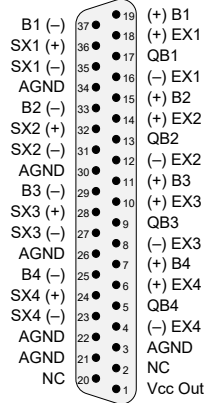
RTD-8-D, 2 wire



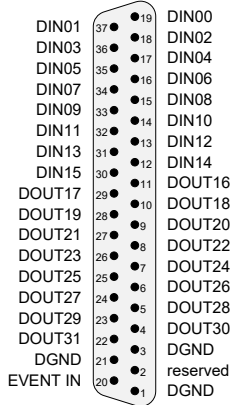
RTD-8-D, 3 wire



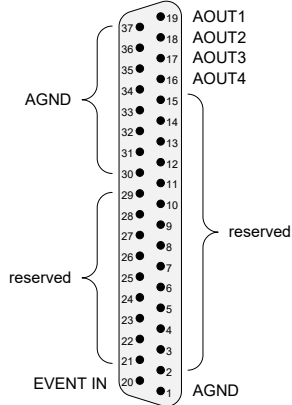
RTD-8-D, 4 wire



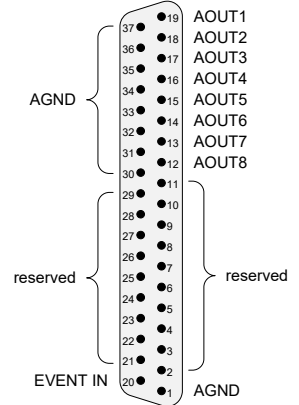
SG-4/18



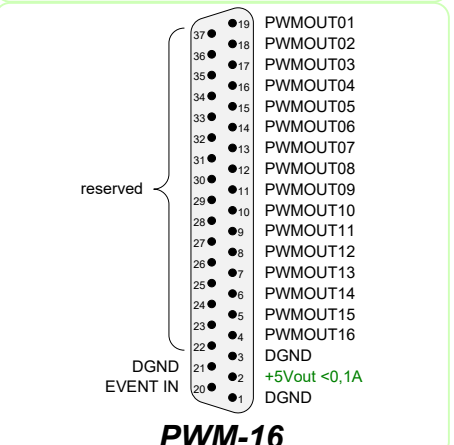
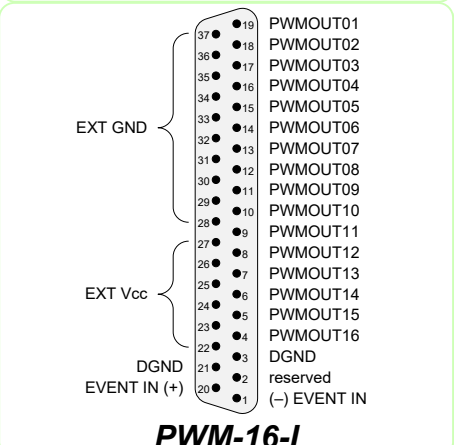
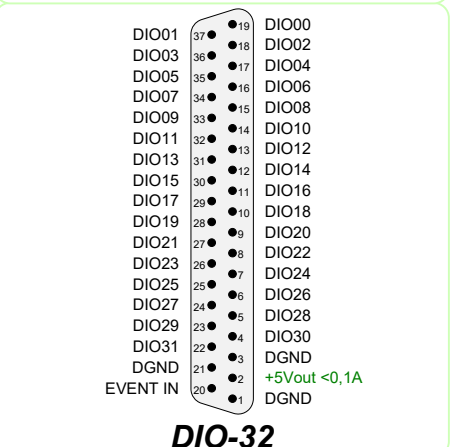
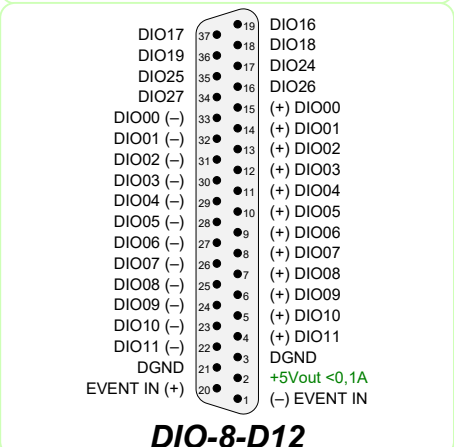
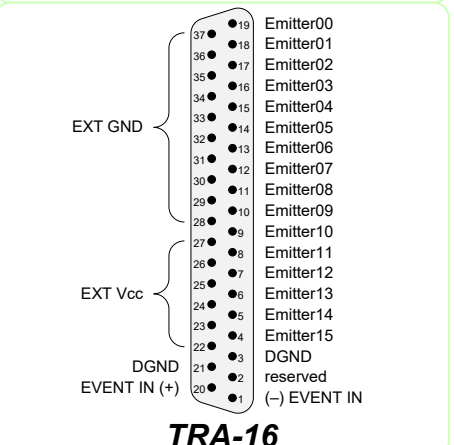
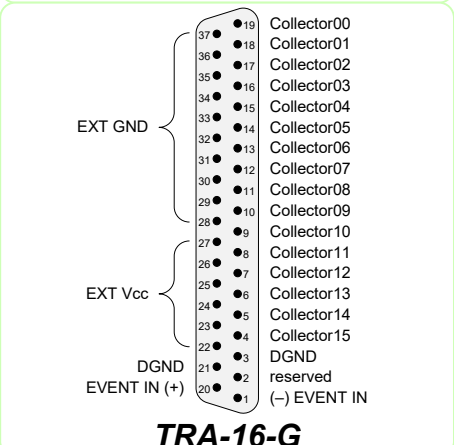
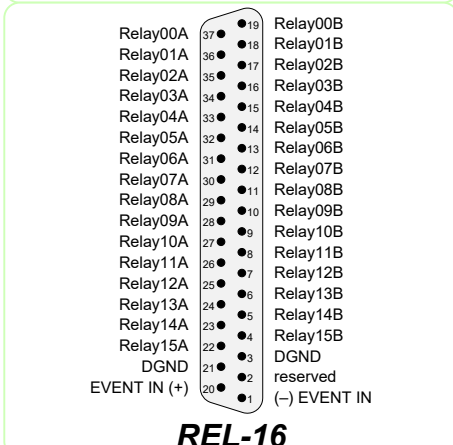
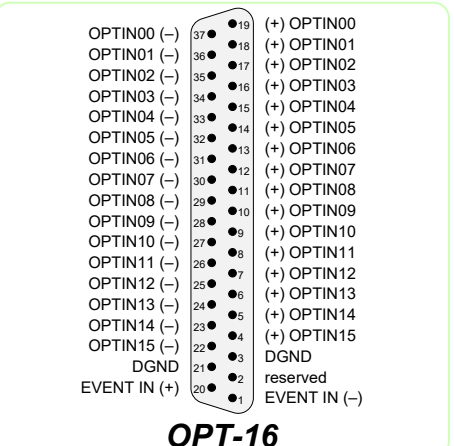
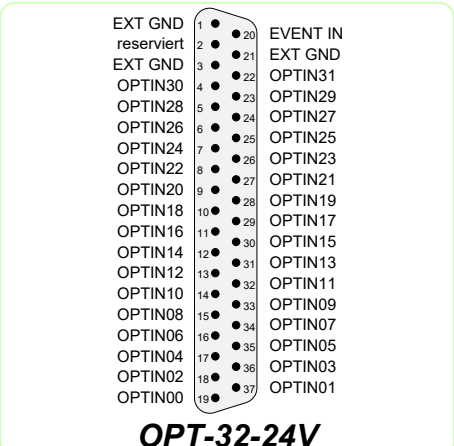
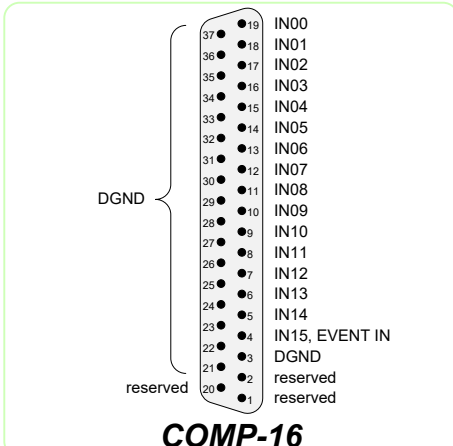
AOut-1/16

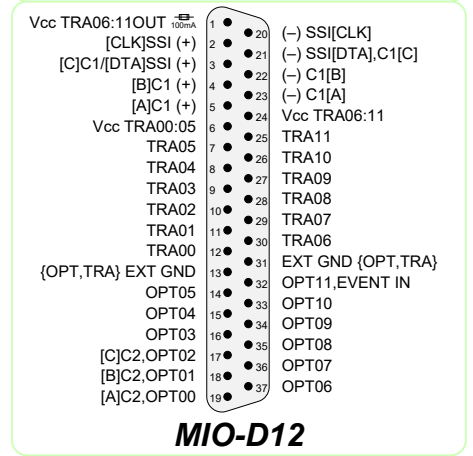
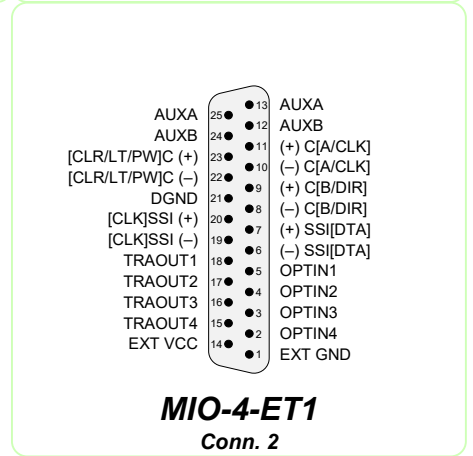
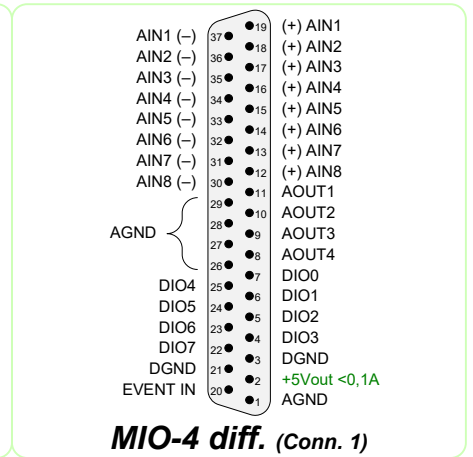
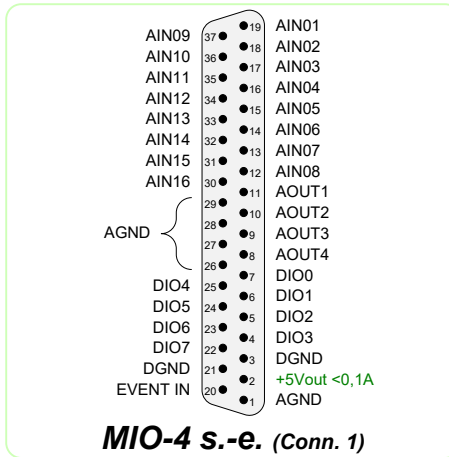


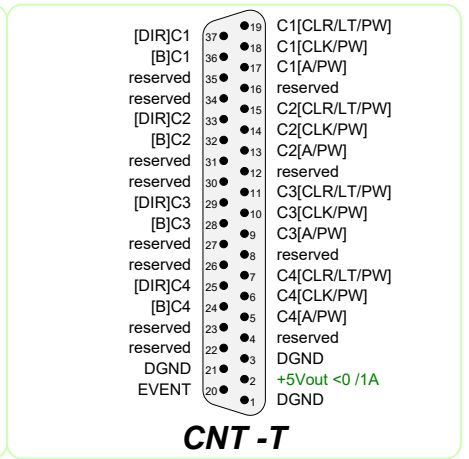
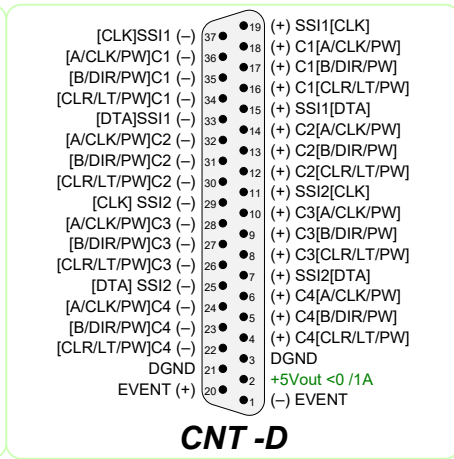
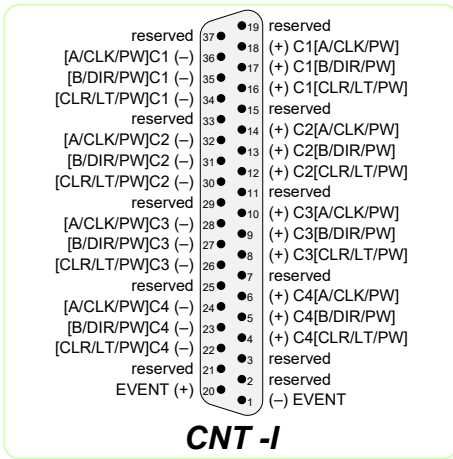
AOut-4/16-D

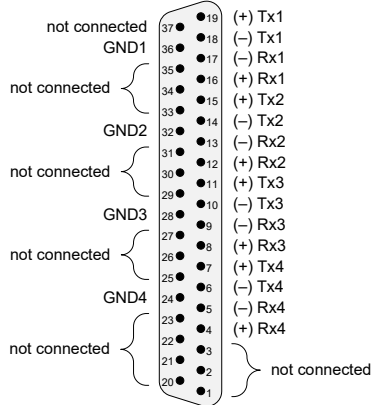


AOut-8/16-D

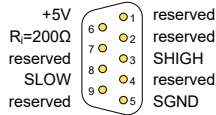






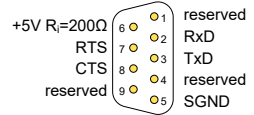


RS422-4



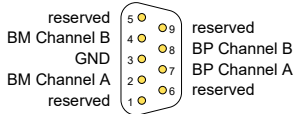
RS-485
(male connector)

RS485 legend:
SHIGH - Signal HIGH
SGND - Signal Ground
SLOW - Signal LOW

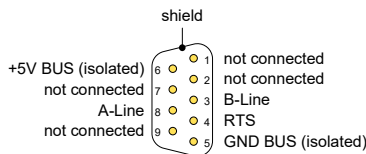


RS-232
(male connector)

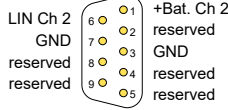
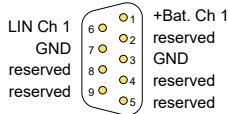
RS232 legend:
RxD - Receive Data
TxD - Transmit Data
SGND - Signal Ground
RTS - Request To Send
CTS - Clear To Send



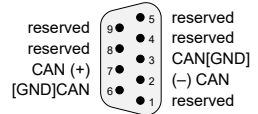
FlexRay
(male connector)



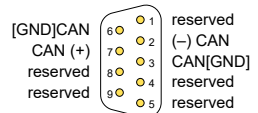
PROFI-SL
(male connector)



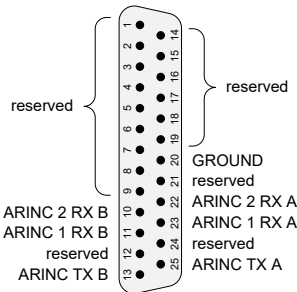
LIN - 2
(male connector)



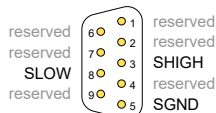
CAN



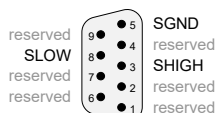
CAN
(male connector)



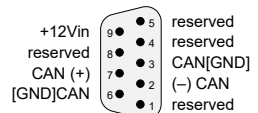
ARINC-429



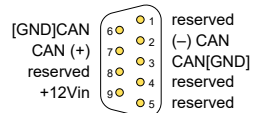
LS-Bus
(male connector)



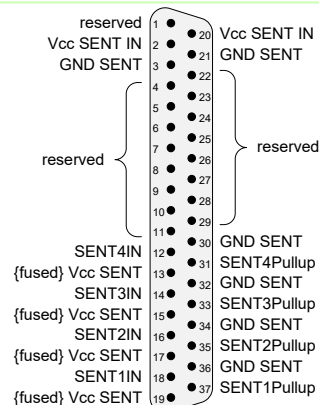
LS-Bus



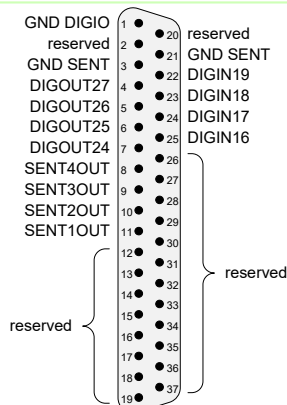
CAN-LS



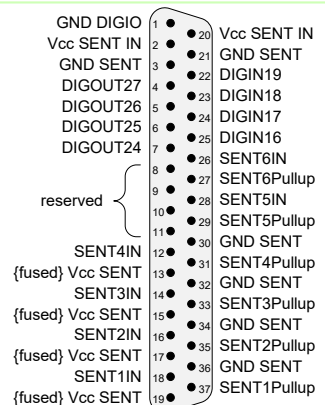
CAN-LS
(male connector)



SENT-4



SENT-4-OUT



SENT-6

DIO17	37	19	DIO16
DIO19	36	18	DIO18
DIO25	35	17	DIO24
DIO27	34	16	DIO26
DIO00 (-)	33	15	(+) DIO00
DIO01 (-)	32	14	(+) DIO01
DIO02 (-)	31	13	(+) DIO02
DIO03 (-)	30	12	(+) DIO03
DIO04 (-)	29	11	(+) DIO04
DIO05 (-)	28	10	(+) DIO05
DIO06 (-)	27	9	(+) DIO06
DIO07 (-)	26	8	(+) DIO07
DIO08 (-)	25	7	(+) DIO08
DIO09 (-)	24	6	(+) DIO09
DIO10 (-)	23	5	(+) DIO10
DIO11 (-)	22	4	(+) DIO11
DGND	21	3	DGND
EVENT IN (+)	20	2	+5Vout <0,1A
		1	(-) EVENT IN

SPI-D: digital channels

DIO01	37	19	DIO00
DIO03	36	18	DIO02
DIO05	35	17	DIO04
DIO07	34	16	DIO06
DIO09	33	15	DIO08
DIO11	32	14	DIO10
DIO13	31	13	DIO12
DIO15	30	12	DIO14
DIO17	29	11	DIO16
DIO19	28	10	DIO18
DIO21	27	9	DIO20
DIO23	26	8	DIO22
DIO25	25	7	DIO24
DIO27	24	6	DIO26
DIO29	23	5	DIO28
DIO31	22	4	DIO30
DGND	21	3	DGND
EVENT IN	20	2	+5Vout <0,1A
		1	DGND

SPI-T: digital channels

DIO17	37	19	DIO16
DIO19	36	18	DIO18
DIO25	35	17	DIO24
DIO27	34	16	DIO26
DIO00 (-)	33	15	(+) DIO00
DIO01 (-)	32	14	(+) DIO01
DIO02 (-)	31	13	(+) DIO02
DIO03 (-)	30	12	(+) DIO03
[MISO]SL1 (-)	29	11	(+) SL1[MISO]
[MISO]SL2 (-)	28	10	(+) SL2[MISO]
[MOSI]SL1 (-)	27	9	(+) SL1[MOSI]
[SS]SL1 (-)	26	8	(+) SL1[SS]
[SCLK]SL1 (-)	25	7	(+) SL1[SCLK]
[MOSI]SL2 (-)	24	6	(+) SL2[MOSI]
[SS]SL2 (-)	23	5	(+) SL2[SS]
[SCLK]SL2 (-)	22	4	(+) SL2[SCLK]
DGND	21	3	DGND
EVENT IN (+)	20	2	+5Vout <0,1A
		1	(-) EVENT IN

SPI-D: SL1 + SL2

DIO1	37	19	DIO0
DIO3	36	18	DIO2
DIO5	35	17	DIO4
DIO7	34	16	DIO6
[SS]SL1	33	15	SL1[MOSI]
[MOSI]SL2	32	14	SL1[SCLK]
[SCLK]SL2	31	13	SL2[SS]
DIGIN14	30	12	DIGIN14
DIGIN15	29	11	SL1[MISO]
reserved	28	10	reserved
reserved	27	9	reserved
reserved	26	8	reserved
reserved	25	7	SL2[MISO]
reserved	24	6	reserved
reserved	23	5	reserved
reserved	22	4	reserved
DGND	21	3	DGND
EVENT IN	20	2	+5Vout <0,1A
		1	DGND

SPI-T: SL1 + SL2

DIO17	37	19	DIO16
DIO19	36	18	DIO18
DIO25	35	17	DIO24
DIO27	34	16	DIO26
DIO00 (-)	33	15	(+) DIO00
DIO01 (-)	32	14	(+) DIO01
DIO02 (-)	31	13	(+) DIO02
DIO03 (-)	30	12	(+) DIO03
[MOSI]MS1 (-)	29	11	(+) MS1[MOSI]
[MISO]SL2 (-)	28	10	(+) SL2[MISO]
[MISO]MS1 (-)	27	9	(+) MS1[MISO]
[SS]MS1 (-)	26	8	(+) MS1[SS]
[SCLK]MS1 (-)	25	7	(+) MS1[SCLK]
[MOSI]SL2 (-)	24	6	(+) SL2[MOSI]
[SS]SL2 (-)	23	5	(+) SL2[SS]
[SCLK]SL2 (-)	22	4	(+) SL2[SCLK]
DGND	21	3	DGND
EVENT IN (+)	20	2	+5Vout <0,1A
		1	(-) EVENT IN

SPI-D: MS1 + SL2

DIO01	37	19	DIO00
DIO03	36	18	DIO02
DIO05	35	17	DIO04
DIO07	34	16	DIO06
DIGIN09	33	15	MS1[MISO]
[MOSI]SL2	32	14	DIGIN10
[SCLK]SL2	31	13	SL2[SS]
DIGIN14	30	12	DIGIN14
DIGIN15	29	11	MS1[MOSI]
[SS]MS1	28	10	MS1[SCLK]
DIGOUT19	27	9	DIGOUT20
DIGOUT21	26	8	DIGOUT22
DIGOUT23	25	7	SL2[MISO]
reserved	24	6	reserved
reserved	23	5	reserved
reserved	22	4	reserved
DGND	21	3	DGND
EVENT IN	20	2	+5Vout <0,1A
		1	DGND

SPI-T: MS1 + SL2

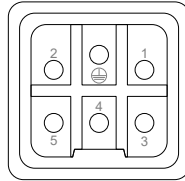
DIO17	37	19	DIO16
DIO19	36	18	DIO18
DIO25	35	17	DIO24
DIO27	34	16	DIO26
DIO00 (-)	33	15	(+) DIO00
DIO01 (-)	32	14	(+) DIO01
DIO02 (-)	31	13	(+) DIO02
DIO03 (-)	30	12	(+) DIO03
[MOSI]MS1 (-)	29	11	(+) MS1[MOSI]
[MOSI]MS2 (-)	28	10	(+) MS2[MOSI]
[MISO]MS1 (-)	27	9	(+) MS1[MISO]
[SS]MS1 (-)	26	8	(+) MS1[SS]
[SCLK]MS1 (-)	25	7	(+) MS1[SCLK]
[MISO]MS2 (-)	24	6	(+) MS2[MISO]
[SS]MS2 (-)	23	5	(+) MS2[SS]
[SCLK]MS2 (-)	22	4	(+) MS2[SCLK]
DGND	21	3	DGND
EVENT IN (+)	20	2	+5Vout <0,1A
		1	EVENT IN (-)

SPI-D: MS1 + MS2

DIO1	37	19	DIO0
DIO3	36	18	DIO2
DIO5	35	17	DIO4
DIO7	34	16	DIO6
DIGIN09	33	15	MS1[MISO]
[MISO]MS2	32	14	DIGIN10
DIGIN13	31	13	DIGIN12
DIGIN15	30	12	DIGIN14
[SS]MS1	29	11	MS1[MOSI]
DIGOUT19	28	10	MS1[SCLK]
DIGOUT21	27	9	DIGOUT20
DIGOUT23	26	8	DIGOUT22
[SS]MS2	25	7	MS2[MOSI]
DIGOUT27	24	6	MS2[SCLK]
DIGOUT29	23	5	DIGOUT28
DIGOUT31	22	4	DIGOUT30
DGND	21	3	DGND
EVENT IN	20	2	+5Vout <0,1A
		1	DGND

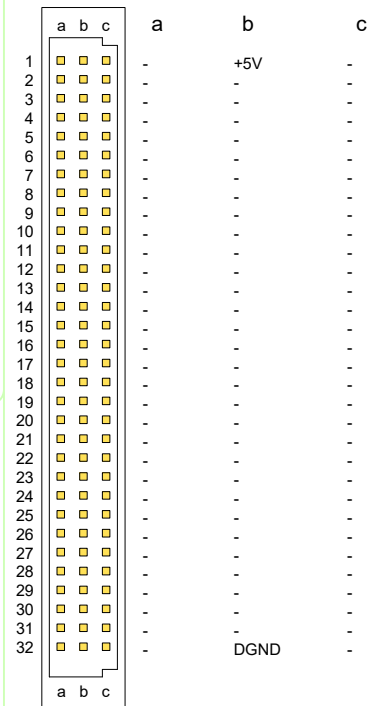
SPI-T: MS1 + MS2

1+2: +10V...+36V



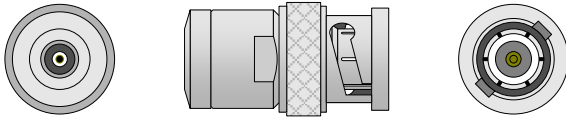
3+4+5: GND (0V)

Pro II-DC connector
(power supply)

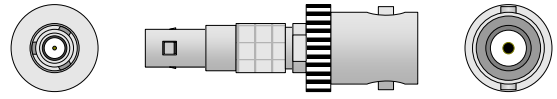


ADwin-Pro II, VG96
(backplane)

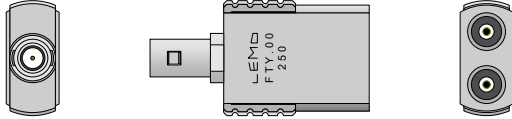
Pro-AS-1 (4 pcs./set)



Pro-AS-2 (4 pcs./set)



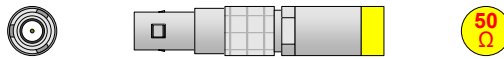
Pro-AS-3 (4 pcs./set)



Pro-AS-4 (4 pcs./set)

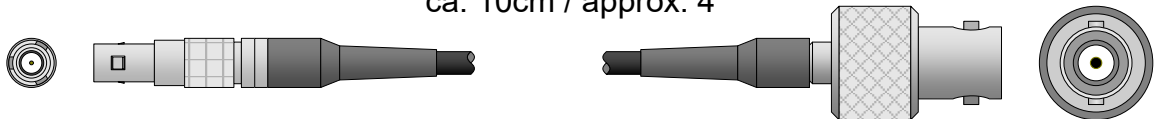


Pro-AS-5 (4 pcs./set)



Pro-AS-6 (4 pcs./set)

ca. 10cm / approx. 4"



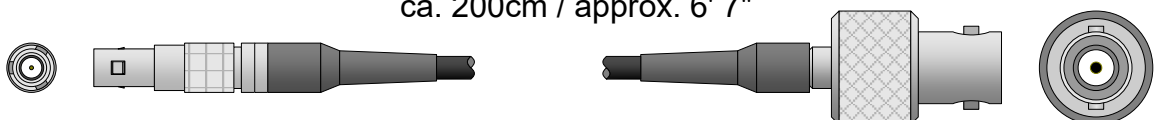
Pro-AS-7 (4 pcs./set)

ca. 100cm / approx. 3' 3"



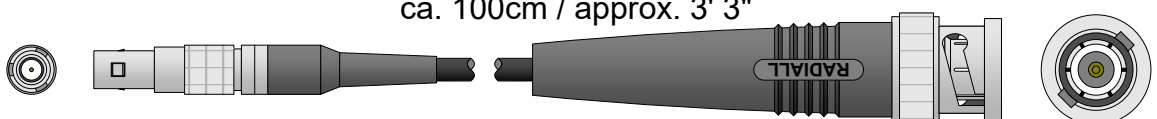
Pro-AS-8 (4 pcs./set)

ca. 200cm / approx. 6' 7"



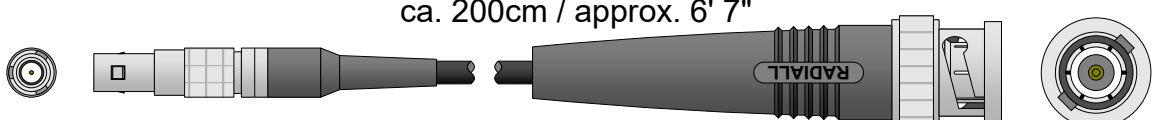
Pro-AS-9 (4 pcs./set)

ca. 100cm / approx. 3' 3"

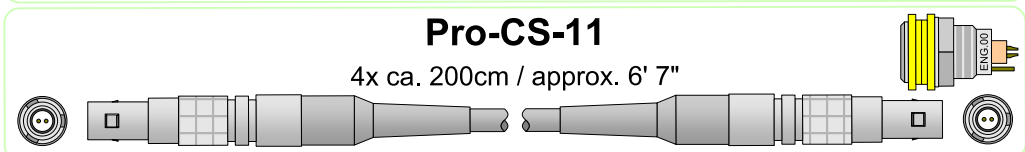
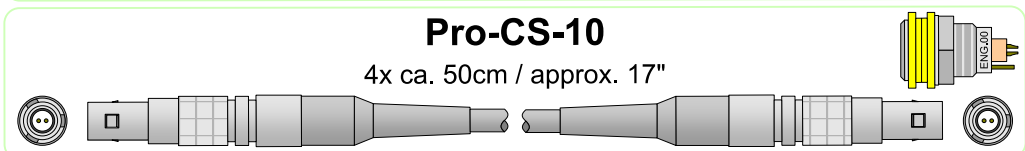
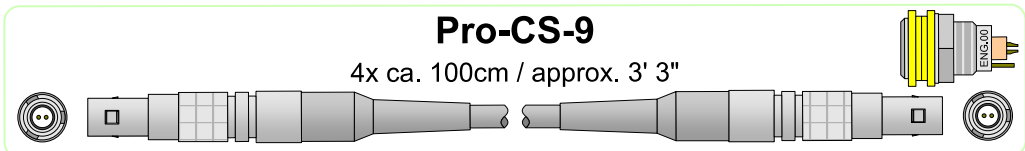
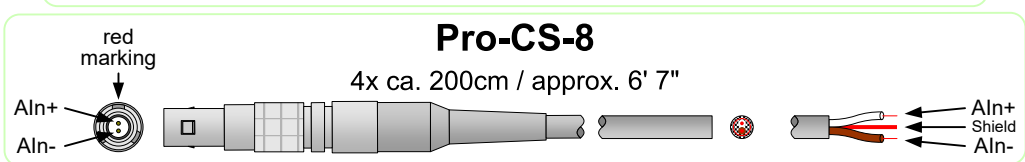
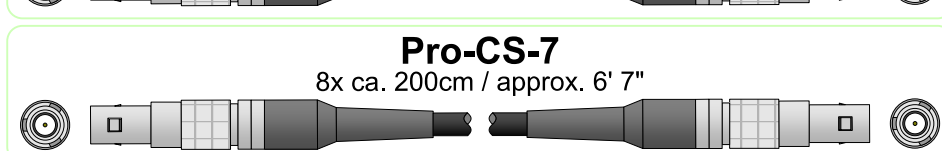
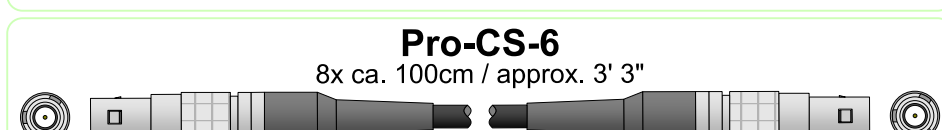
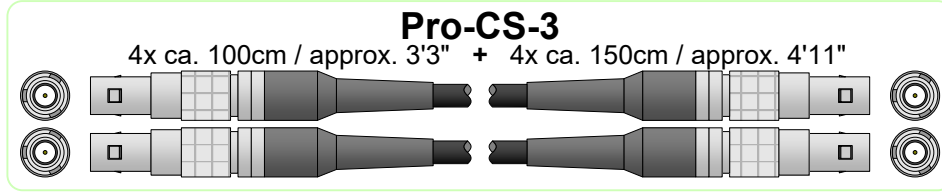
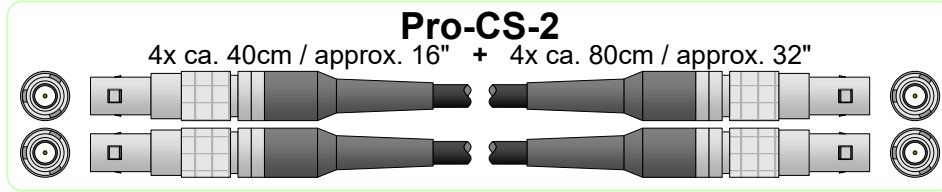
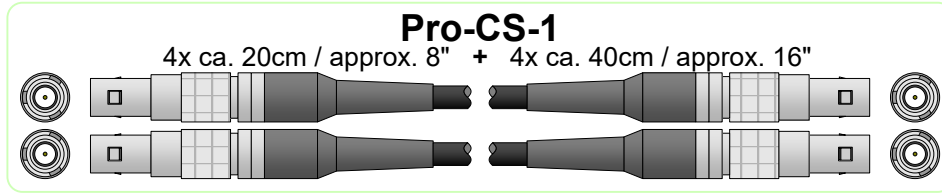


Pro-AS-10 (4 pcs./set)

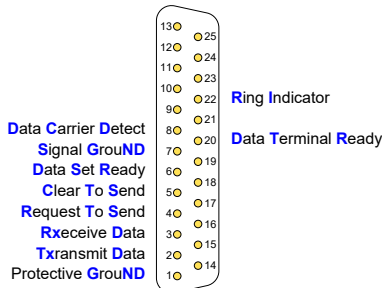
ca. 200cm / approx. 6' 7"



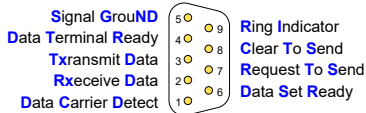
cable connector (male) **ADwin-Pro**: LEMO, series 00, type FGG
 build-in connector (female) **ADwin-Pro**: LEMO, series 00, type ERN



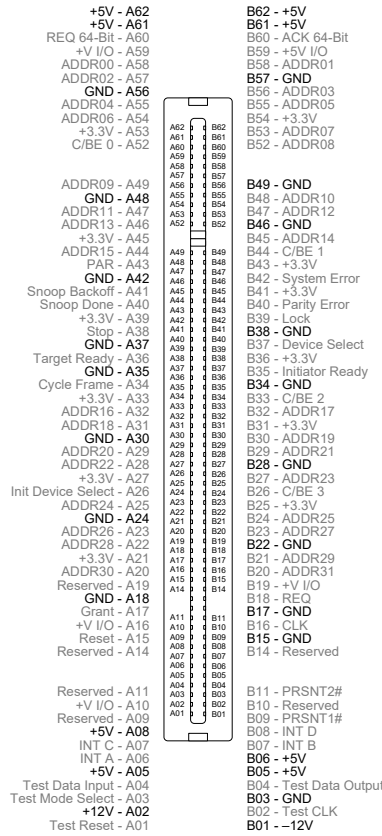
cable connector (male) **ADwin-Pro**: LEMO, series 00; 1-pole: type FFS (CS-1 ... CS-7), 2-pole: type FGG (CS-8 ... CS-11)
 build-in connector (female) **ADwin-Pro**: LEMO, series 00; 1-pole: type ERN (CS-1 ... CS-7), 2-pole: type ENG (CS-8 ... CS-11)



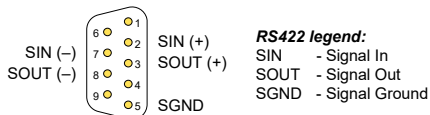
RS-232-C
(male connector)



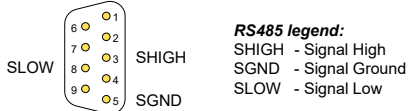
RS-232-C
(male connector)



PCI bus



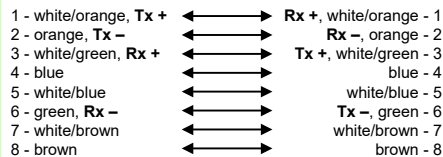
RS-422
(male connector)



RS-485
(male connector)



for connection between: *ADwin* & hub, *ADwin* & switch



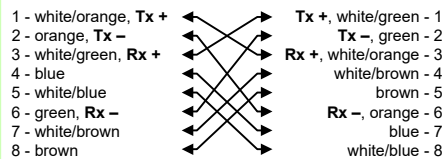
according to ISO/IEC 11801 & EN 50288 & TIA/EIA-568B

Ethernet, RJ-45

(cable connector)



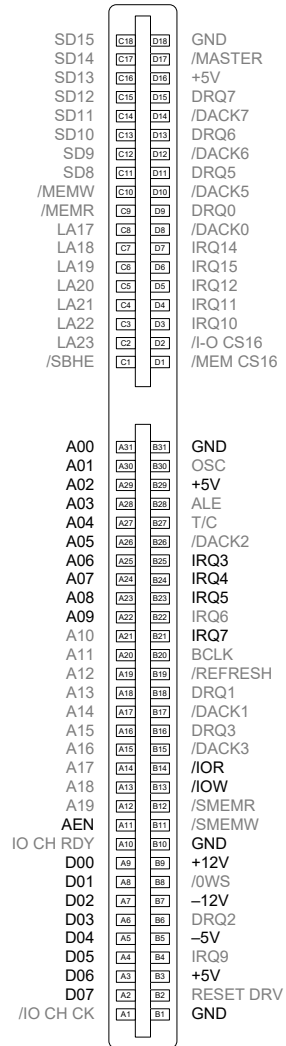
for connection between: *ADwin* & PC, *ADwin* & router



according to ISO/IEC 11801 & EN 50288 & TIA/EIA-568B

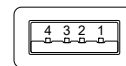
Ethernet, RJ-45 (cross-link)

(cable connector)



ISA bus

Typ A



Typ B



- 1 - +5V
- 2 - D-
- 3 - D+
- 4 - GND

USB

(cable connector)