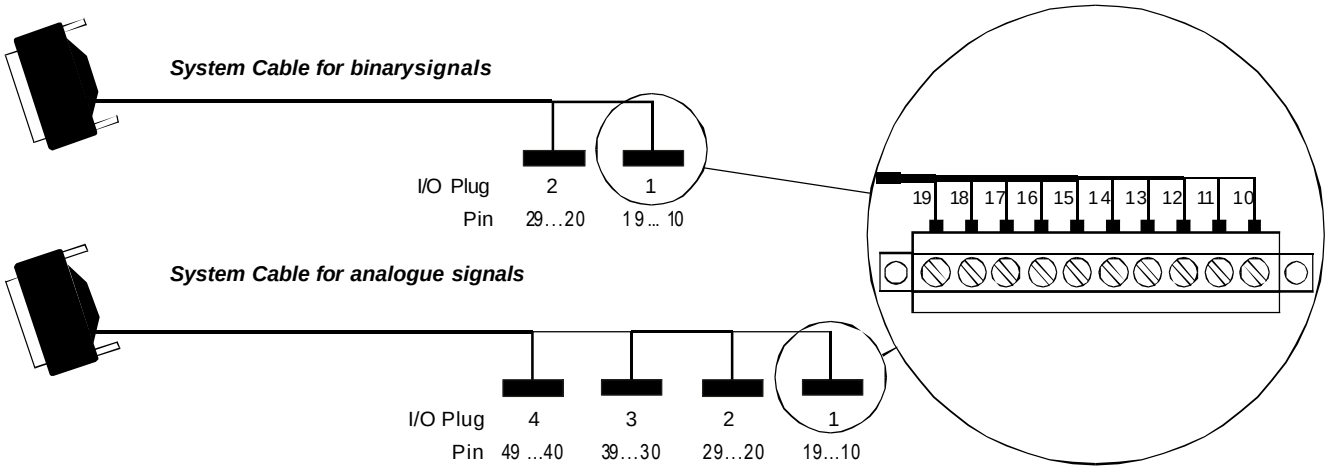
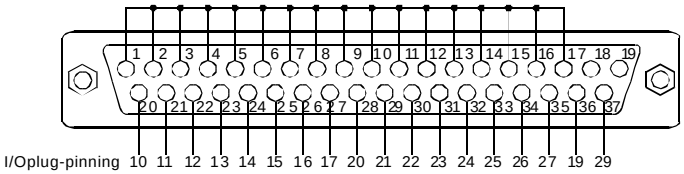
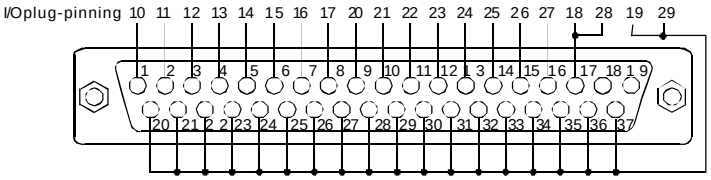
2.2 System Cables



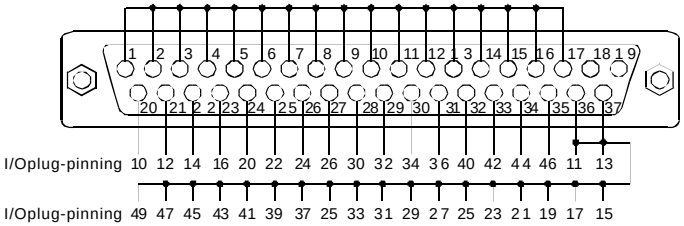
System Cable forbinarysignals
Part no.: 0336331
for Freelance I/O board : DDI 01



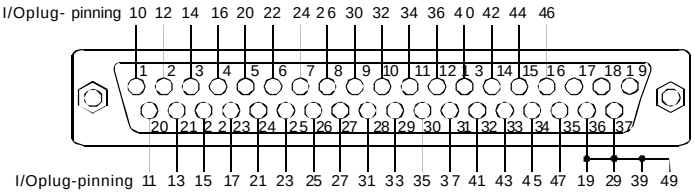
System Cable forbinarysignals
Part no.: 0336332
for Freelance I/O board : DDO 01



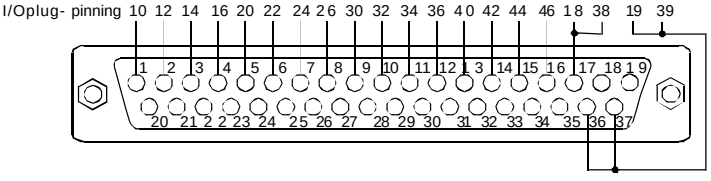
System Cable foranalogue inputsignals (1)
Part no.: 0336333
for Freelance I/O board : DAI 01



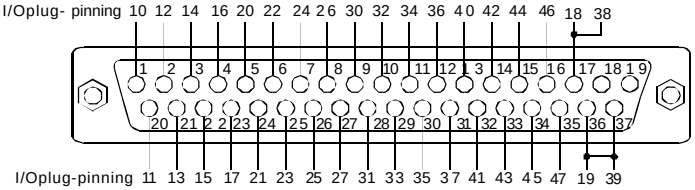
System Cable foranalogue inputsignals (2)
Part no.: 0336334
for Freelance I/O board : DAI 01



System Cable foranalogue output signals (1)
Part no.: 0336335
for Freelance I/O board : DAO 01



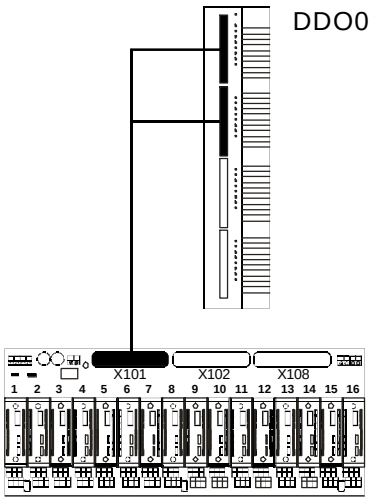
System Cable foranalogue output signals (2)
Part no.: 9700140
for Freelance I/O board : DAO 01



Chapter 4 - Digital Output

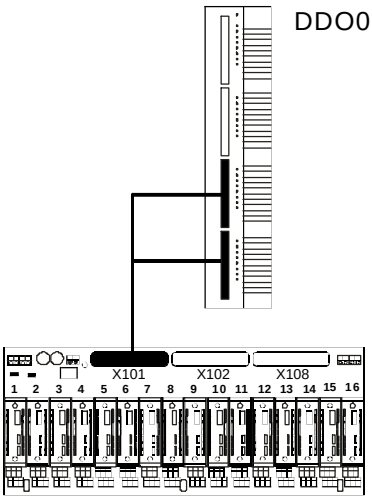
4.1 DigitalOutput, 16 Channels

4.1.1 Interconnection andChannelAssignmentfor Channel 0 ... 15



Contrans I Backplane	***Freelance DDI01***
Slot1	Channel 0
Slot2	Channel 1
Slot3	Channel 2
Slot4	Channel 3
Slot5	Channel 4
Slot6	Channel 5
Slot7	Channel 6
Slot8	Channel 7
Slot9	Channel 8
Slot10	Channel 9
Slot11	Channel10
Slot12	Channel 11
Slot13	Channel12
Slot14	Channel13
Slot15	Channel14
Slot16	Channel15

4.1.2 Interconnection andChannelAssignmentfor Channel 16...31



Contrans I Backplane	***Freelance DDI01***
Slot1	Channel16
Slot2	Channel17
Slot3	Channel 18
Slot4	Channel19
Slot5	Channel20
Slot6	Channel21
Slot7	Channel22
Slot8	Channel23
Slot9	Channel24
Slot10	Channel25
Slot11	Channel26
Slot12	Channel27
Slot13	Channel28
Slot14	Channel29
Slot15	Channel30
Slot16	Channel31

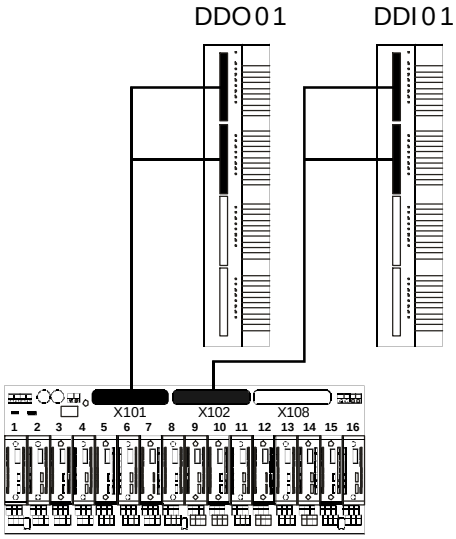
4.1.3 ContransIModules, Backplanes andSystem Cables

Contrans I Modules	System Powered	Field Powered	Redundancy	Channel / Module	Channel / Backplane	Electrical Isolation Input / Output	Electrical Isolation Channel to Channel	Intrinsically Safe	Failure monitoring (short circuit)	Failure signaling (short circuit)	Backplane V17111-321	Backplane V17111-322	Backplane V17111-351	Backplane V17111-320	System Cable 0336331	System Cable 0336332	System Cable 0336333	System Cable 0336334	System Cable 0336335	System Cable 9700140
V17132-5x	x			1	16	x	x	x	x		x	x	x			x				
V17133-21		x		1 of 2	16	x	x				x	x				x				
V17133-510		x		1 of 2	16	x	x				x	x	x			x				

Chapter 4 - Digital Output

4.2 DigitalOutput, 16 Channels and Failure Signaling

4.2.1 Interconnection andChannelAssignmentfor the Channels 0 ... 15



Contrans I Backplane	***Freelance DDO01***
OutputSignals :	
Slot1	Channel 0
Slot2	Channel 1
Slot3	Channel 2
Slot4	Channel 3
Slot5	Channel 4
Slot6	Channel 5
Slot7	Channel 6
Slot8	Channel 7
Slot9	Channel 8
Slot10	Channel 9
Slot11	Channel10
Slot12	Channel 11
Slot13	Channel12
Slot14	Channel13
Slot15	Channel14
Slot16	Channel15

Contrans I Backplane	***Freelance DDI 01***
FailureSignaling:	
Slot1	Channel 0
Slot2	Channel 1
Slot3	Channel 2
Slot4	Channel 3
Slot5	Channel 4
Slot6	Channel 5
Slot7	Channel 6
Slot8	Channel 7
Slot9	Channel 8
Slot10	Channel 9
Slot11	Channel 10
Slot12	Channel 11
Slot13	Channel 12
Slot14	Channel 13
Slot15	Channel 14
Slot16	Channel 15

4.2.2 ContransIModules, Backplanes andSystem Cables

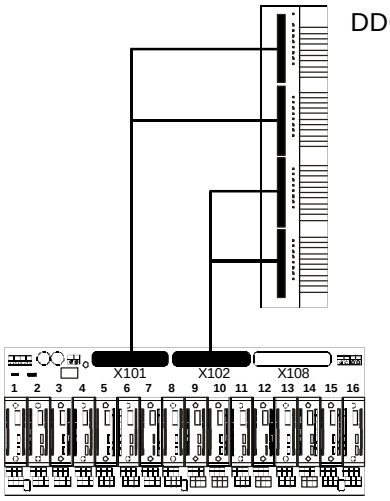
Contrans I Modules	System Powered	Field Powered	Redundancy	Channel / Module	Channel / Backplane	Electrical Isolation Input / Output	Electrical Isolation Chanel to Channel	Intrinsically Safe	Failure monotoring (short circuit)	Failure signaling (short circuit)	Backplane V17111-321	Backplane V17111-322	Backplane V17111-351	Backplane V17111-320	System Cable 0336331	System Cable 0336332	System Cable 0336333	System Cable 0336334	System Cable 0336335	System Cable 9700140
V17132-5x	x			1	16	x	x	x	x	x	x	x	x		x	x				

Important note: please do not mix up the system cables !
- Systemcable 0336331 for DigitalInputs (X102 -> DDI 01)
- Systemcable 0336332 for DigitalOutputs(X101 -> DDO 01)

Chapter 4 - Digital Output

4.3 Digital Output, 32 Channels

4.3.1 Interconnection and Channel Assignment for Channel 0 ... 31



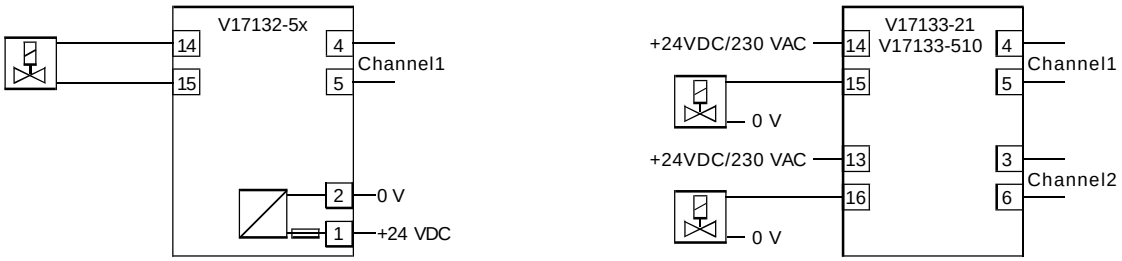
Contrans I Backplane		***Freelance DDO01***
Slot1, Channel 1	----------	Channel 0
Channel 2	----------	Channel 16
Slot2, Channel 1	----------	Channel 1
Channel 2	----------	Channel 17
Slot3, Channel 1	----------	Channel 2
Channel 2	----------	Channel 18
Slot4, Channel 1	----------	Channel 3
Channel 2	----------	Channel 19
Slot5, Channel 1	----------	Channel 4
Channel 2	----------	Channel 20
Slot6, Channel 1	----------	Channel 5
Channel 2	----------	Channel 21
Slot7, Channel 1	----------	Channel 6
Channel 2	----------	Channel 22
Slot8, Channel 1	----------	Channel 7
Channel 2	----------	Channel 23
Slot9, Channel 1	----------	Channel 8
Channel 2	----------	Channel 24
Slot10, Channel1	----------	Channel 9
Channel 2	----------	Channel 25
Slot11, Channel1	----------	Channel 10
Channel 2	----------	Channel 26
Slot12, Channel1	----------	Channel 11
Channel 2	----------	Channel 27
Slot13, Channel1	----------	Channel 12
Channel 2	----------	Channel 28
Slot14, Channel1	----------	Channel 13
Channel 2	----------	Channel 29
Slot15, Channel1	----------	Channel 14
Channel 2	----------	Channel 30
Slot16, Channel1	----------	Channel 15
Channel 2	----------	Channel 31

4.3.2 Contrans I Modules, Backplanes and System Cables

Contrans I Modules	System Powered	Field Powered	Redundancy	Channel / Module	Channel / Backplane	Electrical Isolation Input / Output	Electrical Isolation Chanel to Channel	Intrinsically Safe	Failure monotoring (short circuit)	Failure signaling (short circuit)	Backplane V17111-321	Backplane V17111-322	Backplane V17111-351	Backplane V17111-320	System Cable 0336331	System Cable 0336332	System Cable 0336333	System Cable 0336334	System Cable 0336335	System Cable 9700140
V17133-21		**x**		2	32	**x**	**x**				**x**	**x**				**2x**				
V17133-510		**x**		2	32	**x**	**x**				**x**	**x**	**x**			**2x**				

Chapter 4 - Digital Output

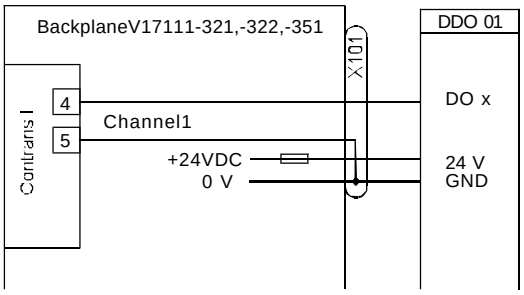
4.4 FunctionalDrawingsof Digital Outputs



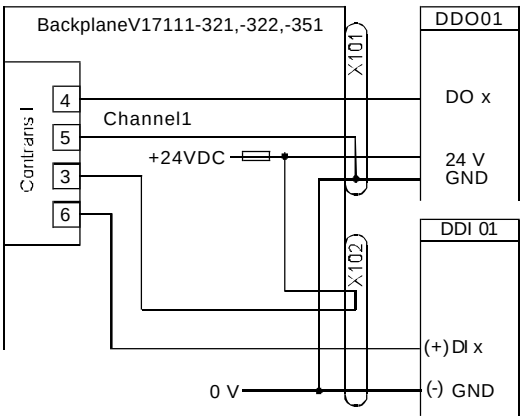
For detailedInformation aboutthefunctionalityoftheContransI Modules,seeCatalogue17.1

4.5 Wiring Diagrams ofDigital Outputs

4.5.1 Digital Output, 16 Channels



4.5.2 Digital Output, 1 6 Channelswith failure signaling



4.5.3 DigitalOutput, 32 Channels

