			•	•					Stand: 24.01.2014		
	Signal	Typ/Pegel	Richtung		oterseite  Pin  Bez.	Steue Stecker	rungs    Pin		Bemerkungen		
	Bezeichnung Sollwert, Achse 1	Analog +/- 10V	S -> R	ED 4 A	1	PCI-6229 CO		AO 0			
	AGND, Sollwert, Achse 1			ED 4 A	26		1 01 0223 00 22 70 0		Auf AGND verbinden		
erte	Sollwert, Achse 2	Analog +/- 10V	S -> R	ED 4 A	2	PCI-6229 C0	21	AO 1			
wer	AGND, Sollwert, Achse 2	1 1 1 101	6 5	ED 4 A	27	0.01.0000.04	22		Auf AGND verbinden		
Sollw	Sollwert, Achse 3 AGND, Sollwert, Achse 3	Analog +/- 10V	S -> R	ED 4 A ED 4 A	28	PCI-6229 C1	22	AO 2	Auf AGND verbinden		
	Sollwert, Achse 4	Analog +/- 10V	S -> R	ED 4 A	4	PCI-6229 C1	21	AO 3	Au Adivo Verbiliden		
	AGND, Sollwert, Achse 4	7		ED 4 A	29				Auf AGND verbinden		
	Encoder A, Achse 1	RS-485	R -> S	ED 4 A	7	PCI-6229 C0	37	PFI8	Linereceiver, Comedi Subdevice 11		
	Encoder A, invertiert, Achse 1	RS-485	R -> S	ED 4 A	32						
	Encoder B, Achse 1 Encoder B, invertiert, Achse 1	RS-485 RS-485	R -> S R -> S	ED 4 A ED 4 A	33	PCI-6229 C0	45	PFI10	Linereceiver, Comedi Subdevice 11		
	Encoder I, Achse 1	RS-485	R -> S	ED 4 A	9						
	Encoder I invertiert, Achse 1	RS-485	R -> S	ED 4 A	34	PCI-6229 C0	3	PFI9	Linereceiver, Comedi Subdevice 11		
	Encoder A, Achse 2	RS-485	R -> S	ED 4 A	10	PCI-6229 C0	42	PFI3	Linereceiver, Comedi Subdevice 12		
	Encoder A, invertiert, Achse 2	RS-485	R -> S	ED 4 A	35						
	Encoder B, Achse 2 Encoder B, invertiert, Achse 2	RS-485 RS-485	R -> S R -> S	ED 4 A ED 4 A	36	PCI-6229 C0	46	PFI11	Linereceiver, Comedi Subdevice 12		
	Encoder I, Achse 2	RS-485	R -> S	ED 4 A	12	001 6220 60		DELA	Linearing Counties to the in 12		
ncoder	Encoder I, invertiert, Achse 2	RS-485	R -> S	ED 4 A	37	PCI-6229 C0	41	PFI4	Linereceiver, Comedi Subdevice 12		
Enc	Encoder A, Achse 3	RS-485	R -> S	ED 4 A	13	PCI-6220	37	PFI8	Linereceiver, Comedi Subdevice 11		
	Encoder A, invertiert, Achse 3	RS-485 RS-485	R -> S R -> S	ED 4 A ED 4 A	38				·		
	Encoder B, Achse 3 Encoder B, invertiert, Achse 3	RS-485	R -> S	ED 4 A	39	PCI-6220	45	PFI10	Linereceiver, Comedi Subdevice 11		
	Encoder I, Achse 3	RS-485	R -> S	ED 4 A	15	DCI 6330	2	DEIO	Lineressiver Comedi Subdevice 11		
	Encoder I, invertiert, Achse 3	RS-485	R -> S	ED 4 A	40	PCI-6220	3	PFI9	Linereceiver, Comedi Subdevice 11		
	Encoder A, Achse 4	RS-485	R -> S	ED 4 A	16	PCI-6220	42	PFI3	Linereceiver, Comedi Subdevice 12		
	Encoder A, invertiert, Achse 4 Encoder B, Achse 4	RS-485 RS-485	R -> S R -> S	ED 4 A ED 4 A	17						
	Encoder B, invertiert, Achse 4	RS-485	R -> S	ED 4 A	42	PCI-6220	46	PFI11	Linereceiver, Comedi Subdevice 12		
	Encoder I, Achse 4	RS-485	R -> S	ED 4 A	18	DCI 6220	11	DEIA	Linereceiver, Comedi Subdevice 12		
	Encoder I, invertiert, Achse 4	RS-485	R -> S	ED 4 A	43	PCI-6220 41 PFI4			,		
e	Enable/Freigabe, Achse 1	TTL		ED 4 A	44	PCI-6229 C0		P0.0	LED grün		
Enabl	Enable/Freigabe, Achse 2 Enable/Freigabe, Achse 3	TTL	S -> R S -> R	ED 4 A ED 4 A	47	PCI-6229 C0 PCI-6229 C0		P0.1 P0.2	LED grün LED grün		
ш	Enable/Freigabe, Achise 3	TTL	S -> R	ED 4 A	24	PCI-6229 C0		P0.2	LED grün		
	Bremse, Achse 1	TTL	S -> R	ED 4 A	20	PCI-6229 C0		P0.4	LED gelb		
mse	Bremse, Achse 2	TTL	S -> R	ED 4 A	46	PCI-6229 C0		P0.5	LED gelb		
Brei	Bremse, Achse 3	TTL	S -> R	ED 4 A	23	PCI-6229 C0	16	P0.6	LED gelb		
	Bremse, Achse 4 Watchdog, Relais NC	TTL Relais	S -> R S -> R	ED 4 A	30	PCI-6229 C0	48	PU. /	LED gelb, Bremse nicht vorhanden		
WD	Watchdog, Relais NO	Relais	S -> R	ED 4 A	31	PCI-6229 C1	5	P0.22	WD Schaltung, Relais & LED (rot, inv.)		
_	Watchdog, Relais COM			ED 4 A	6						
_	Fehler, Achse 1	TTL	R -> S	Dig48	1	PCI-6229 C1		P0.8	Led rot		
Fehler	Fehler, Achse 2 Fehler, Achse 3	TTL	R -> S R -> S	Dig48 Dig48	2			Led rot Led rot			
ŭ.	Fehler, Achse 4	TTL	R -> S	Dig48	4	PCI-6229 C1		P0.10	Led rot		
	Endschalter +, Achse 1	TTL	R -> S	Dig48	5	PCI-6229 C1	_	P0.12			
	Endschalter -, Achse 1	TTL	R -> S	Dig48	6	PCI-6229 C1		P0.13			
alter	Endschalter +, Achse 2	TTL	R -> S	Dig48	7	PCI-6229 C1		P0.14			
sch	Endschalter -, Achse 2 Endschalter +, Achse 3 (oben)	TTL	R -> S R -> S	Dig48 Dig48	9	PCI-6229 C1 PCI-6229 C1		P0.15 P0.16			
End	Endschalter -, Achse 3 (unten)	TTL	R -> S	Dig48	10	PCI-6229 C1		P0.17			
	Endschalter +, Achse 4	TTL	R -> S	Dig48	11	PCI-6229 C1	43	P0.18			
	Endschalter -, Achse 4	TTL	R -> S	Dig48	12	PCI-6229 C1		P0.19			
er	Greifer, öffnen Greifer, schliessen	TTL	S -> R S -> R	Dig48 Dig48	13	PCI-6229 C1 PCI-6229 C1		P0.20	Watchdog muss aktiv sein,		
ireif	Vakuum, ausblasen	TTL	S -> R	Dig48	15	PCI-6229 C1			damit Ventile schliessen		
	Vakuum	TTL	S -> R	Dig48	16	PCI-6220		P0.3			
	Externer 24V Ausgang 1	TTL	S -> R	Dig48	17	PCI-6229 C1		P0.24			
terr	Externer 24V Ausgang 2	TTL	S -> R	Dig48	18	PCI-6229 C1		P0.25			
ŭ	Externer 24V Ausgang 3 Externer 24V Ausgang 4	TTL	S -> R S -> R	Dig48 Dig48	20	PCI-6229 C1 PCI-6229 C1		P0.26 P0.27			
ode	Servocontroller als Stromsteller, Achse 1	TTL	S -> R	Dig48	42	PCI-6229 C1		P0.28			
Moc	Servocontroller als Stromsteller, Achse 2	TTL	S -> R	Dig48	43	PCI-6229 C1		P0.29			
ĭ.	Servocontroller als Stromsteller, Achse 3	TTL	S -> R	Dig48	44	PCI-6229 C1		P0.30			
	Servocontroller als Stromsteller, Achse 4	TTL	S -> R	Dig48	45	PCI-6229 C1	39	P0.31	nicht vorfüghar		
	Ventil 1, öffnen Ventil 1, schliessen	TTL	S -> R S -> R	Dig48	27				nicht verfügbar nicht verfügbar		
	Ventil 2, öffnen	TTL	S -> R	Dig48	28				nicht verfügbar		
	Ventil 2, schliessen	TTL	S -> R	Dig48	29				nicht verfügbar		
	Ventil 3, öffnen	TTL	S -> R						nicht verfügbar		
tile	Ventil 3, schliessen  Ventil 4, öffnen	TTL	S -> R S -> R	Dig48 Dig48				nicht verfügbar nicht verfügbar			
Ventile	Ventil 4, offnen  Ventil 4, schliessen	TTL	S -> R	Dig48	33				nicht verfügbar nicht verfügbar		
Ş	Ventil 5, öffnen	TTL	S -> R	Dig48	34				nicht verfügbar		
Rese	Ventil 5, schliessen	TTL	S -> R	Dig48	35				nicht verfügbar		
Œ.	Ventil 6, öffnen	TTL	S -> R	Dig48	36				nicht verfügbar		
	Ventil 6, schliessen  Ventil 7, öffnen	TTL	S -> R S -> R	Dig48 Dig48	38				nicht verfügbar nicht verfügbar		
	Ventil 7, offier	TTL	S -> R	Dig48	39				nicht verfügbar		
	·	•				_					

Übersicht Signale NTB-SCARA

	V - 110 """		6 5	D: 40	4.0				
	Ventil 8, öffnen Ventil 8, schliessen	TTL	S -> R S -> R	Dig48	40				nicht verfügbar
	ventil 8, schilessen	TTL	5 -> K	Dig48	22	PCI-6220	17	P0.1	nicht verfügbar
						PCI-6220		P0.1 P1.0	Achtung: Zweitfunktion
				Dig48 Dig48	23	PCI-6220		P1.0 P1.1	Achtung: Zweitfunktion
_	Bestätigungstaste, Beleuchtung	TTL	S -> R	Dig48	21	PCI-6220		P0.0	Actitutig. Zweitruffktioff
	Bestätigungstaste	TTL	R -> S	Dig48	47	PCI-6220		P0.5	
₹	Freigabe	TTL	R -> S	Dig48	46	PCI-6220		P0.4	
工	Taster 1	TTL	R -> S	Dig48	48	PCI-6220		P0.6	
	Taster 2	TTL	R -> S	Dig48	49	PCI-6220		P0.7	
	Kraftsensor, Fx	Analog +/- 10V	R -> S	PrecAnalog	1	PCI-6229 C0		AI0	
	AGND, Kraftsensor, Fx	Analog +/- 10V	R -> S	PrecAnalog	2	1 61 0223 60		A10	
	Kraftsensor, Fy	Analog +/- 10V	R -> S	PrecAnalog	5	PCI-6229 C0	33	Al1	
	AGND, Kraftsensor, Fy	Analog +/- 10V	R -> S	PrecAnalog	6	. 0. 0225 00		7.112	
Ξ	Kraftsensor, Fz	Analog +/- 10V	R -> S	PrecAnalog	9	PCI-6229 C0	65	AI2	
Sus	AGND, Kraftsensor, Fz	Analog +/- 10V	R -> S	PrecAnalog	10	. 0. 0223 00		/ ··· <b>-</b>	
Kraftsen	Kraftsensor, Tx	Analog +/- 10V	R -> S	PrecAnalog	13	PCI-6229 C0	30	AI3	
Kra	AGND, Kraftsensor, Tx	Analog +/- 10V	R -> S	PrecAnalog	14				
	Kraftsensor, Ty	Analog +/- 10V	R -> S	PrecAnalog	17	PCI-6229 C0	28	AI4	
	AGND, Kraftsensor, Ty	Analog +/- 10V	R -> S	PrecAnalog	18				
	Kraftsensor, Tz	Analog +/- 10V	R -> S	PrecAnalog	21	PCI-6229 C0	60	AI5	
	AGND, Kraftsensor, Tz	Analog +/- 10V	R -> S	PrecAnalog	22				
	Reserve ADC A1	Analog +/- 10V	R -> S	PrecAnalog	27	PCI-6229 C0	25	Al6	X5A9
	AGND, Reserve ADC A1	Analog +/- 10V	R -> S	PrecAnalog	28				
	Reserve ADC A2	Analog +/- 10V	R -> S	PrecAnalog	31	PCI-6229 C0	57	AI7	X5A10
	AGND, Reserve ADC A2	Analog +/- 10V	R -> S	PrecAnalog	32				
	Reserve ADC A3	Analog +/- 10V	R -> S	PrecAnalog	3	PCI-6229 C0	34	AI8	X5A11
	AGND, Reserve ADC A3	Analog +/- 10V	R -> S	PrecAnalog	4				
	Reserve ADC A4	Analog +/- 10V	R -> S	PrecAnalog	7	PCI-6229 C0	66	AI9	X5A12
⋖	AGND, Reserve ADC A4	Analog +/- 10V	R -> S	PrecAnalog	8				
DCs /	Reserve ADC A5	Analog +/- 10V	R -> S	PrecAnalog	11	PCI-6229 C0	31	Al10	
AD	AGND, Reserve ADC A5	Analog +/- 10V	R -> S	PrecAnalog	12				
rve	Reserve ADC A6	Analog +/- 10V	R -> S	PrecAnalog	15	PCI-6229 C0	63	Al11	
ese	AGND, Reserve ADC A6	Analog +/- 10V	R -> S	PrecAnalog	16				
~	Reserve ADC A7	Analog +/- 10V	R -> S	PrecAnalog	19	PCI-6229 C0	61	Al12	
	AGND, Reserve ADC A7	Analog +/- 10V	R -> S	PrecAnalog	20				
	Reserve ADC A8	Analog +/- 10V	R -> S	PrecAnalog	23	PCI-6229 C0	26	Al13	X5A13
	AGND, Reserve ADC A8	Analog +/- 10V	R -> S	PrecAnalog	24				
	Reserve ADC A9	Analog +/- 10V	R -> S	PrecAnalog	29	PCI-6229 C0	58	Al14	
	AGND, Reserve ADC A9	Analog +/- 10V	R -> S	PrecAnalog	30				
	Reserve ADC A10	Analog +/- 10V	R -> S	PrecAnalog	33	PCI-6229 C0	23	Al15	
<u>.</u>	AGND, Reserve ADC A10	Analog +/- 10V	R -> S	PrecAnalog	34				
SOr	HAL Sensor 1	Analog +/- 10V	R -> S	PrecAnalog	35	PCI-6220		AI0	
Sens	HAL Sensor 2	Analog +/- 10V	R -> S	PrecAnalog	37	PCI-6220		AI1	K
Ι	HAL Sensor 3	Analog +/- 10V	R -> S	PrecAnalog	39	PCI-6220		AI2	Kurzschluss gegen GND auf Adapter
	HAL Sensor 4	Analog +/- 10V	R -> S	PrecAnalog	41	PCI-6220		AI3	
	Reserve ADC B1	Analog +/- 10V	R -> S	ExtA ExtA	2	PCI-6229 C1		AI16 AI17	
	Pasarya ADC P3	Analog 1 / 10\/	D \ C			DCI 6220 C1		AIT/	
	Reserve ADC B2	Analog +/- 10V	R -> S		2	PCI-6229 C1		A110	•
	Reserve ADC B3	Analog +/- 10V	R -> S	ExtA	3	PCI-6229 C1	65	AI18	
	Reserve ADC B3 Reserve ADC B4	Analog +/- 10V Analog +/- 10V	R -> S R -> S	ExtA ExtA	3 4	PCI-6229 C1 PCI-6229 C1	65 30	AI19	
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5	Analog +/- 10V Analog +/- 10V Analog +/- 10V	R -> S R -> S R -> S	ExtA ExtA ExtA	3 4 5	PCI-6229 C1 PCI-6229 C1 PCI-6229 C1	65 30 28	AI19 AI20	
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6	Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V	R -> S R -> S R -> S R -> S	ExtA ExtA ExtA ExtA	3 4 5 6	PCI-6229 C1 PCI-6229 C1 PCI-6229 C1 PCI-6229 C1	65 30 28 60	AI19 AI20 AI21	
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7	Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V	R -> S R -> S R -> S R -> S	ExtA ExtA ExtA ExtA ExtA	3 4 5 6 7	PCI-6229 C1 PCI-6229 C1 PCI-6229 C1 PCI-6229 C1 PCI-6229 C1	65 30 28 60 25	AI19 AI20 AI21 AI22	
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8	Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V	R -> S R -> S R -> S R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA	3 4 5 6 7 8	PCI-6229 C1 PCI-6229 C1 PCI-6229 C1 PCI-6229 C1 PCI-6229 C1 PCI-6229 C1	65 30 28 60 25 57	AI19 AI20 AI21 AI22 AI23	
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9	Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V	R -> S R -> S R -> S R -> S R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9	PCI-6229 C1	65 30 28 60 25 57 34	AI19 AI20 AI21 AI22 AI23 AI24	
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10	Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V Analog +/- 10V	R -> S R -> S R -> S R -> S R -> S R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA	3 4 5 6 7 8 9 10	PCI-6229 C1	65 30 28 60 25 57 34 66	AI19 AI20 AI21 AI22 AI23	
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10	PCI-6229 C1	65 30 28 60 25 57 34 66 31	AI19 AI20 AI21 AI22 AI23 AI24 AI25	
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11	Analog +/- 10V	R -> S R -> S R -> S R -> S R -> S R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26	
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27	
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28	
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29	
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30	Nicht verfügbar
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30	Nicht verfügbar Nicht verfügbar
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30	
_	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B15 Reserve ADC B16 N/C N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30	Nicht verfügbar
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B15 Reserve ADC B16 N/C N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30	Nicht verfügbar Nicht verfügbar
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C N/C N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30	Nicht verfügbar Nicht verfügbar Nicht verfügbar
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C N/C N/C N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30	Nicht verfügbar Nicht verfügbar Nicht verfügbar Nicht verfügbar Nicht verfügbar Nicht verfügbar
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30	Nicht verfügbar
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30	Nicht verfügbar
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30	Nicht verfügbar
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30	Nicht verfügbar
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30 AI31	Nicht verfügbar
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30 AI31	Nicht verfügbar
	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26 58 23	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30 AI31  NC AI Sense NC	Nicht verfügbar
ted	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26 58 23	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30 AI31	Nicht verfügbar
nected	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26 58 23	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30 AI31	Nicht verfügbar
onnected	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26 58 23	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30 AI31	Nicht verfügbar
ot connected	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26 58 23	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30 AI31	Nicht verfügbar
Not connected	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B15 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1	65 30 28 60 25 57 34 66 31 63 61 26 58 23	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30 AI31	Nicht verfügbar
Not connected	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B11 Reserve ADC B13 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1 PCI-6220 C1 PCI-6220 PCI-6220 PCI-6220 PCI-6220	65 30 28 60 25 57 34 66 31 63 61 26 58 23 20 62 20 62 20 21 22 54 55	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30 AI31  NC AI Sense NC AI Sense 2 NC NC NC NC NC NC	Nicht verfügbar
Not connected	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1 PCI-6220 PCI-6220 PCI-6220 PCI-6220 PCI-6220	65 30 28 60 25 57 34 66 31 63 61 26 58 23 20 62 20 62 20 21 22 54 55	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30 AI31   NC AI Sense NC NC NC NC NC NC AI Sense	Nicht verfügbar
Not connected	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1 PCI-6220 C1 PCI-6220 PCI-6220 PCI-6220 PCI-6220 PCI-6220 PCI-6220	65 30 28 60 25 57 34 66 31 63 61 26 58 23 20 62 20 62 20 21 22 54 55 62 28	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30 AI31   NC AI Sense NC NC NC NC NC NC NC NC NC AI Sense AI4	Nicht verfügbar
Not connected	Reserve ADC B3 Reserve ADC B4 Reserve ADC B5 Reserve ADC B6 Reserve ADC B7 Reserve ADC B8 Reserve ADC B9 Reserve ADC B10 Reserve ADC B11 Reserve ADC B12 Reserve ADC B13 Reserve ADC B14 Reserve ADC B15 Reserve ADC B16 N/C	Analog +/- 10V	R -> S R -> S	ExtA ExtA ExtA ExtA ExtA ExtA ExtA ExtA	7 8 9 10 11 12 13 14	PCI-6229 C1 PCI-6220 PCI-6220 PCI-6220 PCI-6220 PCI-6220	65 30 28 60 25 57 34 66 31 63 61 26 58 23 20 62 20 62 20 21 22 54 55 62 28	AI19 AI20 AI21 AI22 AI23 AI24 AI25 AI26 AI27 AI28 AI29 AI30 AI31   NC AI Sense NC NC NC NC NC NC AI Sense	Nicht verfügbar

Übersicht Signale NTB-SCARA

	N/C				PCI-6220	57	AI7	Nicht verfügbar
	N/C				PCI-6220	34	AI8	Nicht verfügbar
	N/C				PCI-6220	66	AI9	Nicht verfügbar
	N/C				PCI-6220	31	Al10	Nicht verfügbar
	N/C				PCI-6220	63	Al11	Nicht verfügbar
						61		
- 1	N/C				PCI-6220	01	AI12	Nicht verfügbar
	N/C				PCI-6220	26	Al13	Nicht verfügbar
	N/C				PCI-6220	58	Al14	Nicht verfügbar
	N/C				PCI-6220	23	Al15	Nicht verfügbar
	DVCC, +5V, PCI-6229				PCI-6229 C0	8	5V	Jumper auf "VCC"
	DVCC, +5V, PCI-6229				PCI-6229 C0	14	5V	Jumper auf VCC
	DVCC, +5V, PCI-6229				PCI-6229 C1		5V	
<u>ω</u>	DVCC, +5V, PCI-6229				PCI-6229 C1	14		Jumper auf "VCC"
, 20								
2	DVCC, +5V, PCI-6220				PCI-6220		5V	Jumper auf "VCC"
	DVCC, +5V, PCI-6220				PCI-6220	14	5V	·
	DVCC, +5V, Roboter		ED 4 A	50				Jumper auf "VCC"
	AVCC, +5V, Roboter		PrecAnalog	49				Jumper auf "VCC"
	AVCC, -5V, Roboter		PrecAnalog	50				Nicht verbunden
_	DGND		ED 4 A	5				
- 1	DGND		ED 4 A	19				-
- 1								_
	DGND		ED 4 A	22				_
	DGND		ED 4 A	25				
	DGND		ED 4 A	45				
	DGND		ED 4 A	48				_
	DGND		Dig48	25				-
								-
	DGND		Dig48	50	201 27		5.65	
	DGND				PCI-6229 C0		D GND	
	DGND				PCI-6229 C0		D GND	
	DGND				PCI-6229 C0	9	D GND	
	DGND				PCI-6229 C0		D GND	
	DGND				PCI-6229 C0		D GND	
	DGND				PCI-6229 C0		D GND	
	DGND				PCI-6229 C0		D GND	
	DGND				PCI-6229 C0	35	D GND	
	DGND				PCI-6229 C0	36	D GND	
	DGND				PCI-6229 C0		D GND	
	DGND				PCI-6229 C0		D GND	
_	DGND				PCI-6229 C0	_	D GND	
(Digital)	DGND				PCI-6229 C1	4	D GND	
<u></u>	DGND				PCI-6229 C1	7	D GND	
) e	DGND				PCI-6229 C1	9	D GND	
~	DGND				PCI-6229 C1		D GND	
Σ								
	DGND				PCI-6229 C1		D GND	
	DGND				PCI-6229 C1		D GND	
	DGND				PCI-6229 C1	18	D GND	
	DGND				PCI-6229 C1	35	D GND	
	DGND				PCI-6229 C1	36	D GND	
	DGND				PCI-6229 C1		D GND	
	DGND				PCI-6229 C1		D GND	
	DGND				PCI-6229 C1		D GND	
	DGND				PCI-6220	4	D GND	
	DGND				PCI-6220	7	D GND	
	DGND				PCI-6220		D GND	
	DGND				PCI-6220		D GND	
	DGND				PCI-6220		D GND	
	DGND				PCI-6220	15	D GND	
	DGND				PCI-6220	18	D GND	
	DGND				PCI-6220	35	D GND	
	DGND				PCI-6220		D GND	
	DGND				PCI-6220		D GND	
	DGND				PCI-6220		D GND	
	DGND				PCI-6220		D GND	
	AGND				PCI-6229 C0	24	AI GND	
	AGND				PCI-6229 C0	27	AI GND	
	AGND				PCI-6229 C0		AI GND	
	AGND				PCI-6229 C0 PCI-6229 C0		AI GND	
	AGND				PCI-6229 C0		AO GND	
	AGND				PCI-6229 C0		AO GND	
	AGND				PCI-6229 C0	56	AI GND	
	AGND				PCI-6229 C0		AI GND	
	AGND				PCI-6229 C0		AI GND	
	AGND				PCI-6229 C0		AI GND	
	AGND				PCI-6229 C1		AI GND	
20	AGND				PCI-6229 C1	27	AI GND	
<u> </u>	AGND				PCI-6229 C1	29	AI GND	
U	AGND				PCI-6229 C1		AI GND	
<u>.</u>					PCI-6229 C1		AO GND	
226	AGND							
2	AGND				PCI-6229 C1		AO GND	
-	AGND				PCI-6229 C1		AI GND	
	AGND				PCI-6229 C1	59	AI GND	
	AGND				PCI-6229 C1		AI GND	
	AGND				PCI-6229 C1		AI GND	
	AGND				PCI-6220		AI GND	
		_		_	DCI COOO			
	AGND				PCI-6220		AI GND	
	AGND AGND				PCI-6220 PCI-6220		AI GND AI GND	
						29		

Übersicht Signale NTB-SCARA

AGND				PCI-6220	56	AI GND
AGND				PCI-6220	59	AI GND
AGND				PCI-6220	64	AI GND
AGND				DCI-6220	67	AL GND

Übersicht Signale NTB-SCARA 4/4