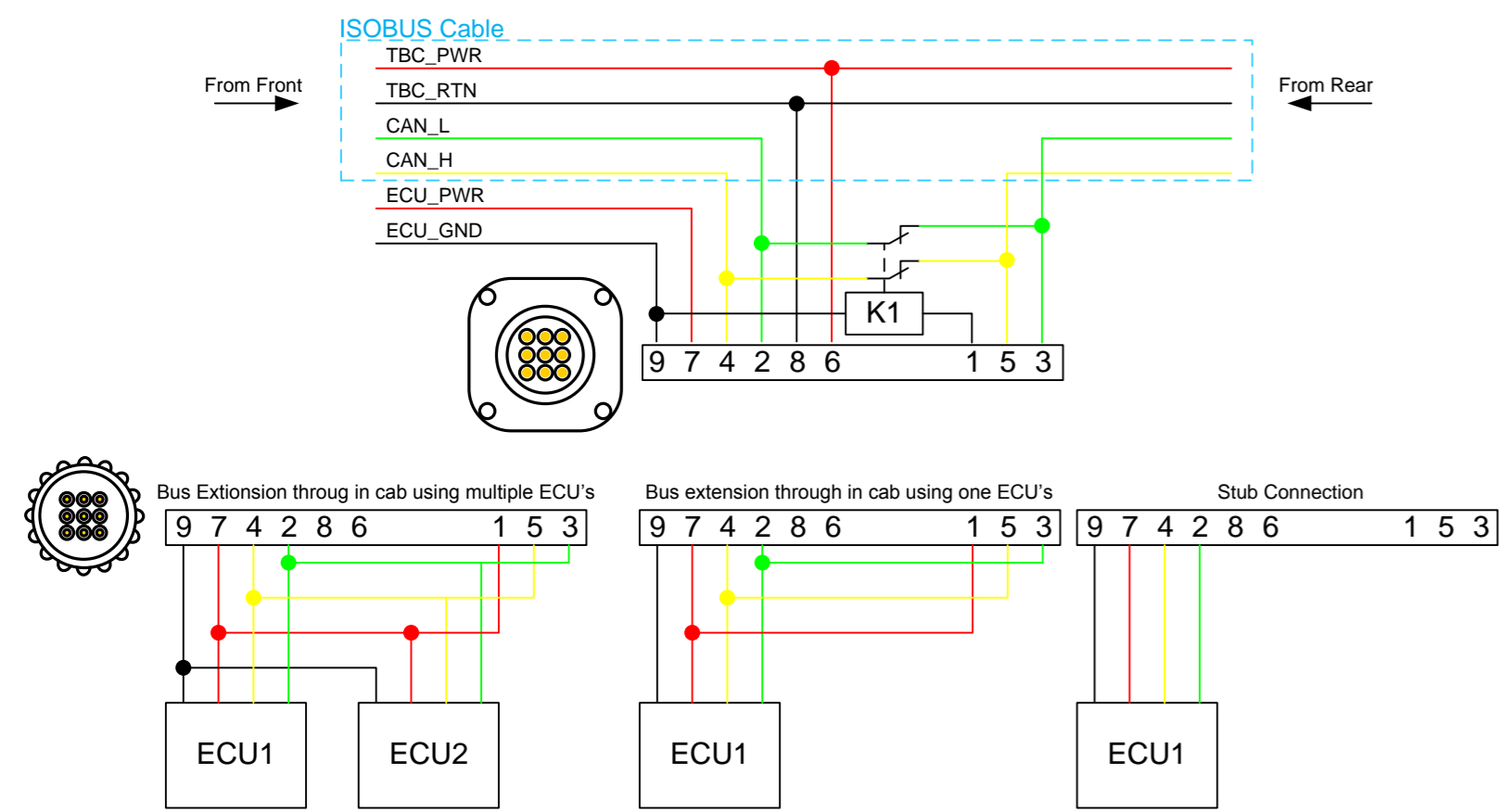


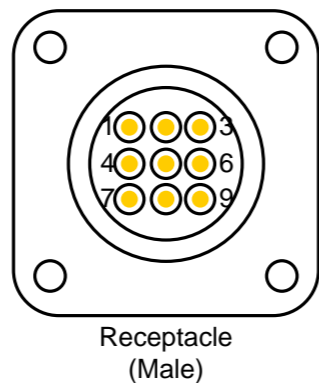
# ISOBUS 11783 – Part 2 (Physical Layer)

# Sonstiges

## In Cab - Schaltplan



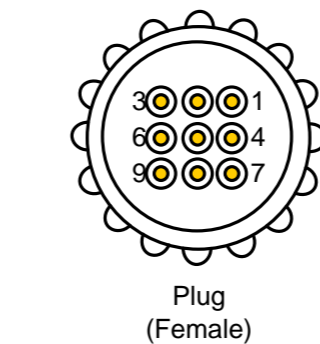
## In Cab-Stecker



**Bezugsquellen:**  
www.agripapa.de  
www.conrad.de

**Notizen:**

PIN	Allocation
1	Connected to ECU_PWR
2	CAN_L Input
3	CAN_L Output
4	CAN_H Input
5	CAN_H Output
6	TBC_PWR
7	ECU_PWR
8	TBC_GND
9	ECU_GND



## D-SUB 9 nach CiA-Standard



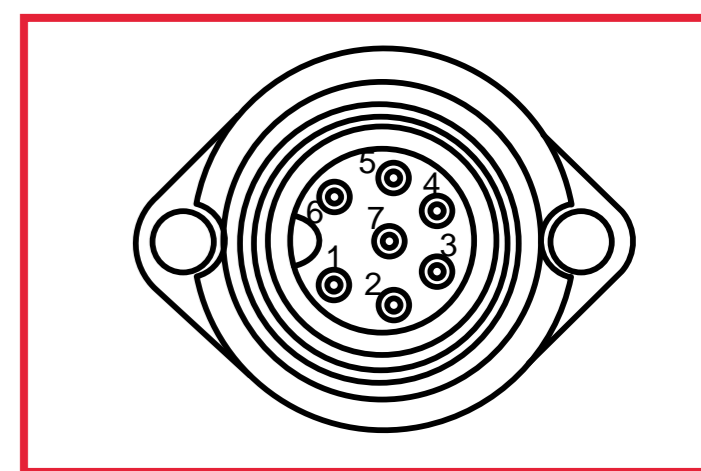
**Bezugsquellen:**  
www.conrad.biz  
www.reichelt.de

**Notizen:**

PIN	Allocation
1	reserviert
2	CAN_L
3	CAN_GND
4	reserviert
5	CAN_SHLD
6	GND
7	CAN_H
8	reserviert
9	VCC



## ISO11786

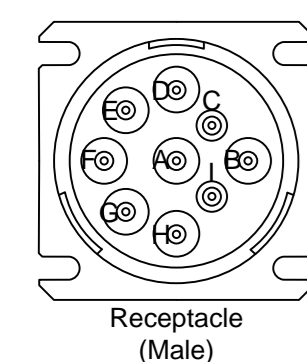


PIN	Allocation
1	True ground speed (Radarsensor)
2	Theoretical ground speed (Radarsensor)
3	Rear PTO rotational speed
4	Three-point in-work/out-of-work
5	Three-point linkage position
6	Power supply (switched by ignition key)
7	Ground

## Diagnose-Stecker

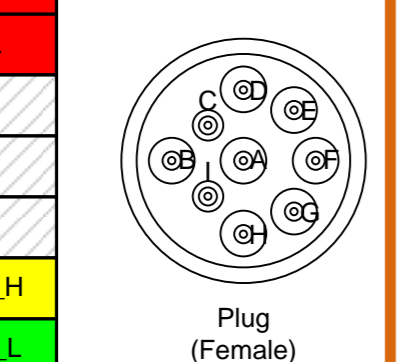


Powell Electronics:  
24EJ10-9-1939PN  
24EJ17-9-1939PN  
24EJ17-9-1939PN-1



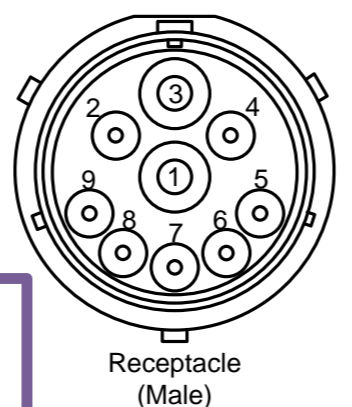
**Bezugsquellen:**  
www.agripapa.de

**Notizen:**



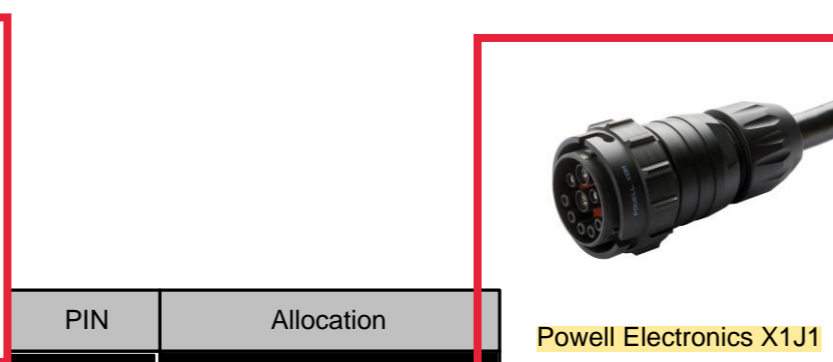
PIN	Allocation
A	ECU_GND
B	Unswitched Power
C	Tractor Bus CAN_H
D	Tractor Bus CAN_L
E	Not specified
F	Not specified
G	Not specified
H	Implement Bus CAN_H
I	Implement Bus CAN_L

## Implement Bus Breakaway Connector

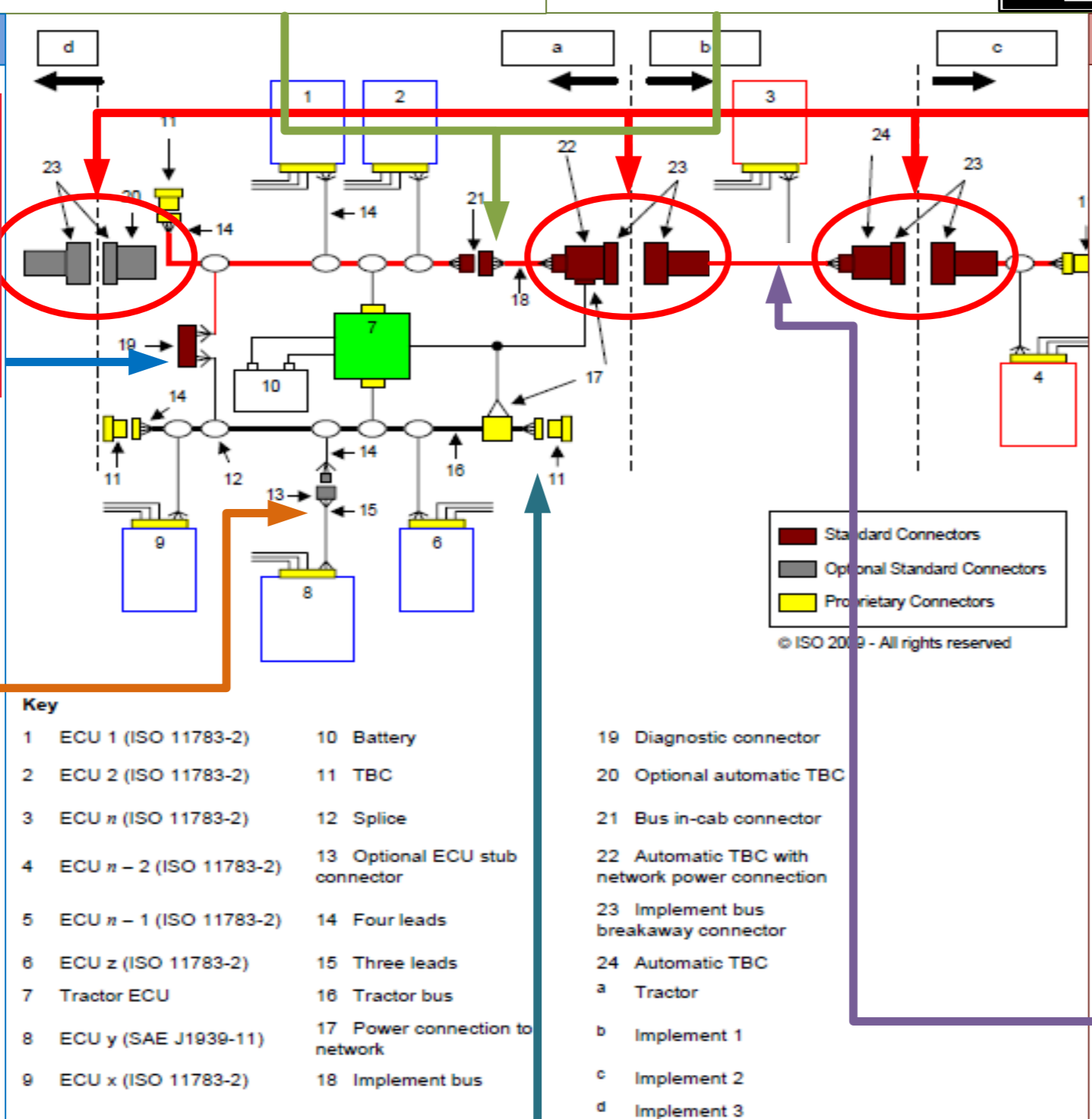
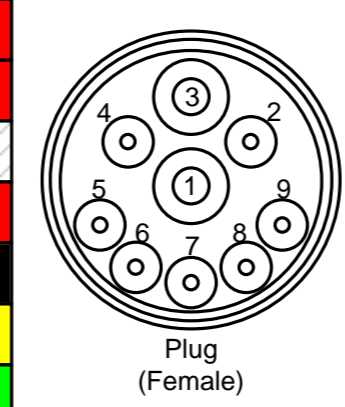


**Bezugsquellen:**  
www.agripapa.de

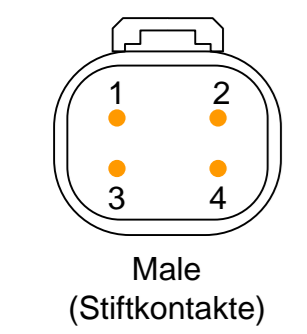
**Notizen:**



PIN	Allocation
1	GND
2	ECU_GND
3	PWR
4	ECU_PWR
5	TBC_DIS
6	TBC_PWR
7	TBC_RTIN
8	CAN_H
9	CAN_L

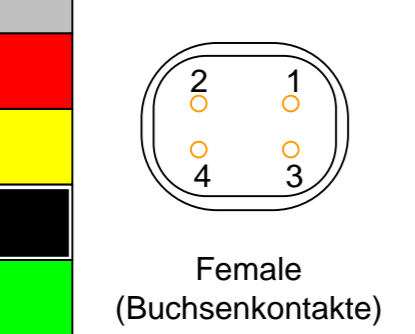


## Bus-Erweiterungs-Stecker



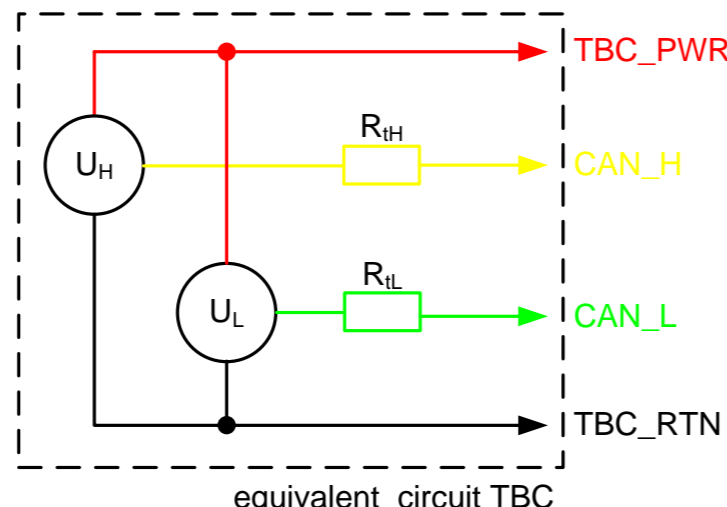
**Bezugsquellen:**  
www.agripapa.de  
http://www.steckerladen.de

**Notizen:**



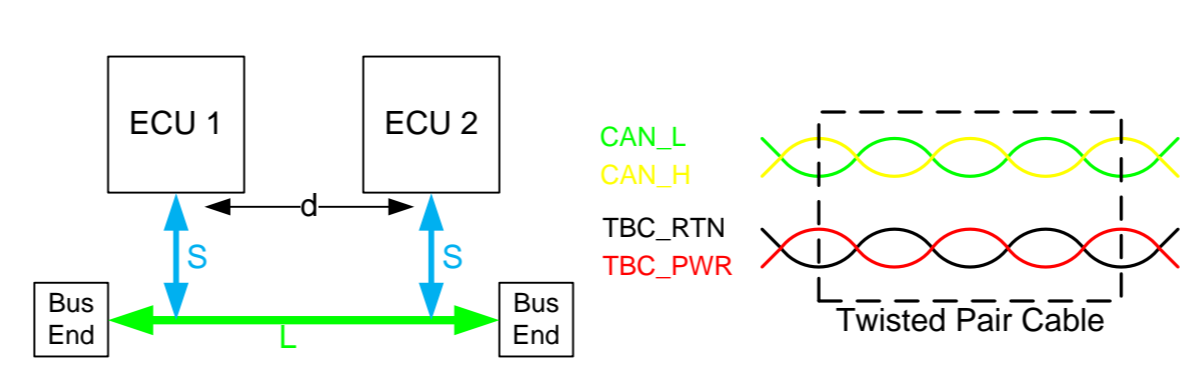
PIN	Allocation
1	TBC_PWR
2	CAN_H
3	TBC_RTIN
4	CAN_L

## Aktive Bus-Terminierung (TBC)



Parameter	Symbol	Min.	Nom.	Max.	Unit
CAN_L bias voltage	$U_H$	2,25	2,5	2,75	V
CAN_H bias voltage	$U_L$	2,25	2,5	2,75	V
CAN_H terminating resistance	$R_{H1}$	70	75	80	$\Omega$
CAN_L terminating resistance	$R_{L1}$	70	75	80	$\Omega$

## CAN-Bus Leitung



Parameter	Symbol	Min.	Nom.	Max.	Unit
Impedanz	$Z_H$ $Z_L$	70	75	80	$\Omega$
Conductor Size	$A_c$	0	0,5	0	mm <sup>2</sup>
Bus length	L	0	-	40	m
Stub length	S	0	-	1	m
Node Distance	d	0,1	-	40	m

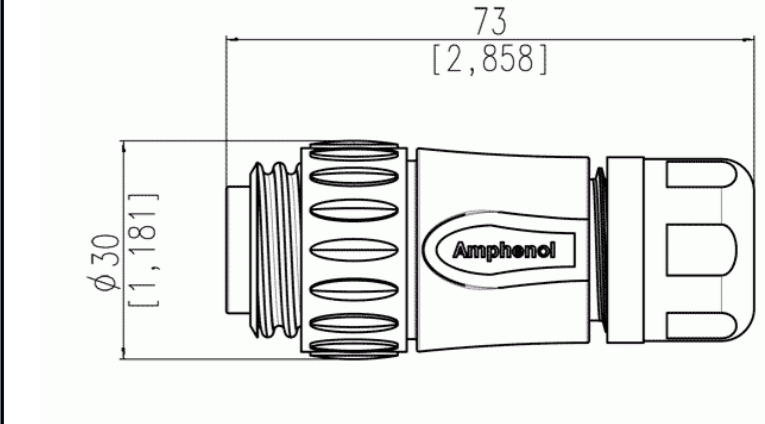
## D-SUB 9 Belegung Müller Terminal



**Bezugsquellen:**  
www.conrad.biz  
www.reichelt.de

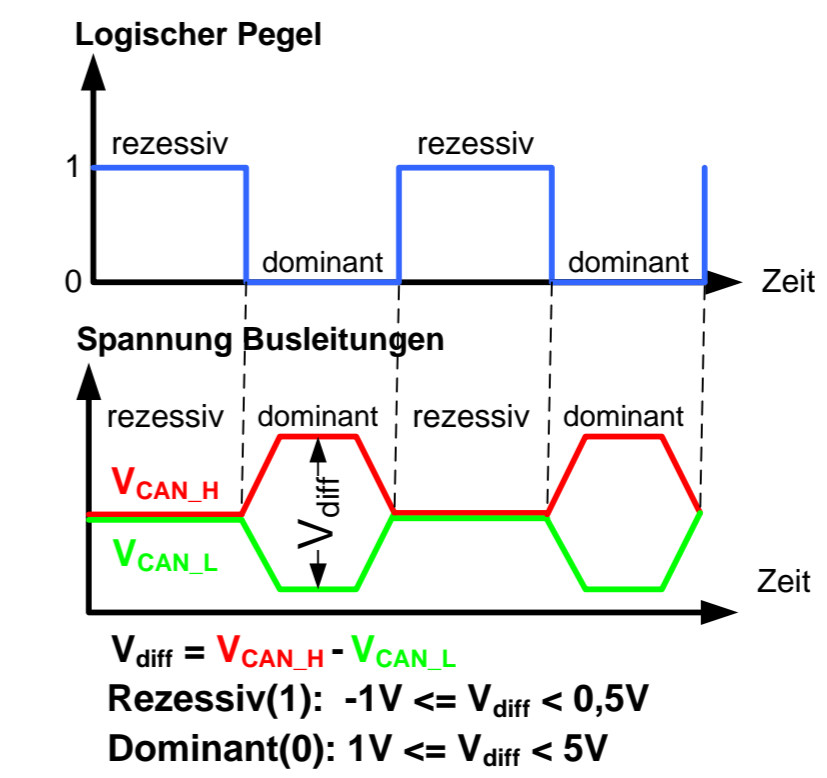
**Notizen:**

PIN	Allocation
1	CAN_L_IN
2	CAN_L_OUT
3	CAN_GND
4	CAN_H_IN
5	CAN_ENABLE_IN
6	GND
7	CAN_H_OUT
8	CAN_ENABLE_OUT
9	VCC



Conrad: Amphenol C16 (6+PE) 26.07.2007

## CAN Spannungspegel



## Strombelastbarkeit

Parameter	Symbol	Min.
Implement Power Lines	PWR	50A
ECU Power Lines	ECU_PWR	15A

## Notizen

Empty notes section.

## Legende:

PWR	Pluspol Spannungsversorgung des Laststromkreis	TBC_DIS	TBC Disable. Diese Kontakt dient zum abschalten des TBC's wenn der Implement Stecker eingesteckt wird
GND	Minuspol Spannungsversorgung des Laststromkreis	CAN_H	CAN-Datenleitung. Wird bei einem dominanten Pegel auf eine höhere Spannung gezogen
ECU_PWR	Pluspol Spannungsversorgung für ECU's	CAN_L	CAN-Datenleitung. Wird bei einem dominanten Pegel auf eine niedrigere Spannung gezogen
ECU_GND	Minuspol Spannungsversorgung für ECU's	Emergency	Kontakte des Not-Aus-Schalters am Terminal
TBC_PWR	Pluspol Spannungsversorgung TBC (Abschluß)	Enable	Enable Signal des Terminals. Über diese Signal kann die Spannungsversorgung für das Anbaugerät eingeschaltet werden
TBC_RTIN	Minuspol Spannungsversorgung TBC (Abschluß)	Shield	Anschluß für Abschirmung (in ISO11783 nicht genutzt)

