2.1.4 Interface specification

Connector A

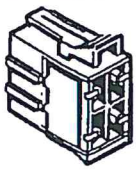
Connector contact	Parameters	Values min.	Values typ.	Values max.	[Unit]	Connector A (natural white)  Remarks
A1 O						T. 30 constant voltage (relating to A5)
Battery +	**24 V**					
	Voltage	20	24	30	V	
				32		Short term (max. 1 h)
	Current		38		mA	"v" standby
				48	mA	Total "v" current
Standby definition: no RPM, work status on break time and ignition off						
A2						
A3 O						T. 15 (relating to A6)
Battery + ignition	**24 V**					
	Voltage	20	24	30	V	
				32		Short term (max. 1 h)
	Current			22	mA	Total "v" current
The total current is defined including tray discharge.						
A4 O						(relating to A7)
CAN_H						Technical description according to ISO/WD 16844
A5 O						T. 31a (relating to A1)
Battery -						
A6 O						T. 31 (relating to A2, A3)
GND						
A7 O						(optional)
CAN_GND						Galvanised/ capacitive connection
A8 O						(relating to A7)
CAN_L						Technical description according to ISO/WD 16844

Table 2-1: Interfaces: Connector A (current and CAN bus connection)

Connector B

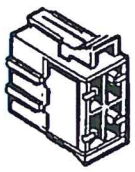
Connector contact	Parameters	Values min.	Values typ.	Values max.	[Unit]	Connector B km/h MPH (yellow)  Remarks
B1 O						KITAS sensor reference
	Voltage	6,5		9	V	
B2 O						
	Battery "–"					T. 31, minus internal bridge with A5
B3 I						Sensor and generator reference
"v" signal (real time)	Voltage Low			1,0	V	I = -250 µA
	High	3,8				I = -150 µA
B4						
B5						
B6 O						Standard (cf. definition of B7) or customised
"v" pulse						
B7 O						Instrument interface/ K-Line (relating to A6)
"v" pulse	Voltage Low			1,5	V	I = 1 mA
	High	5,5				I = -1 mA
	Frequency			1,5	kHz	
	Pulse length	0,64		4	ms	±1%
	Tachograph constant	4000		25000	imp/km	
B8 O						
4 imp/m	Voltage Low			1.5	V	I = 1 mA
	High	5.5				I = -1 mA
	Frequency			244	Hz	v = 220 km/h
	Pulse length	1.6			ms	

Table 2-2: Interfaces: Connector B "km/h MPH"

Connector C (not used)

Connector D (not used)

