



Elektroplan (Zusatz) Electric diagram (addition)

Motorabstellung mit Zeitrelais Remote shut-down engine with timer

S3000
Baureihe /
Series

-
Seriennummer /
Serial No

17.07.2012
Ausgabedatum /
Date of issue

2279345-00
Katalog Bestellnummer /
Catalogue order No

Schutzvermerk nach ISO 16016

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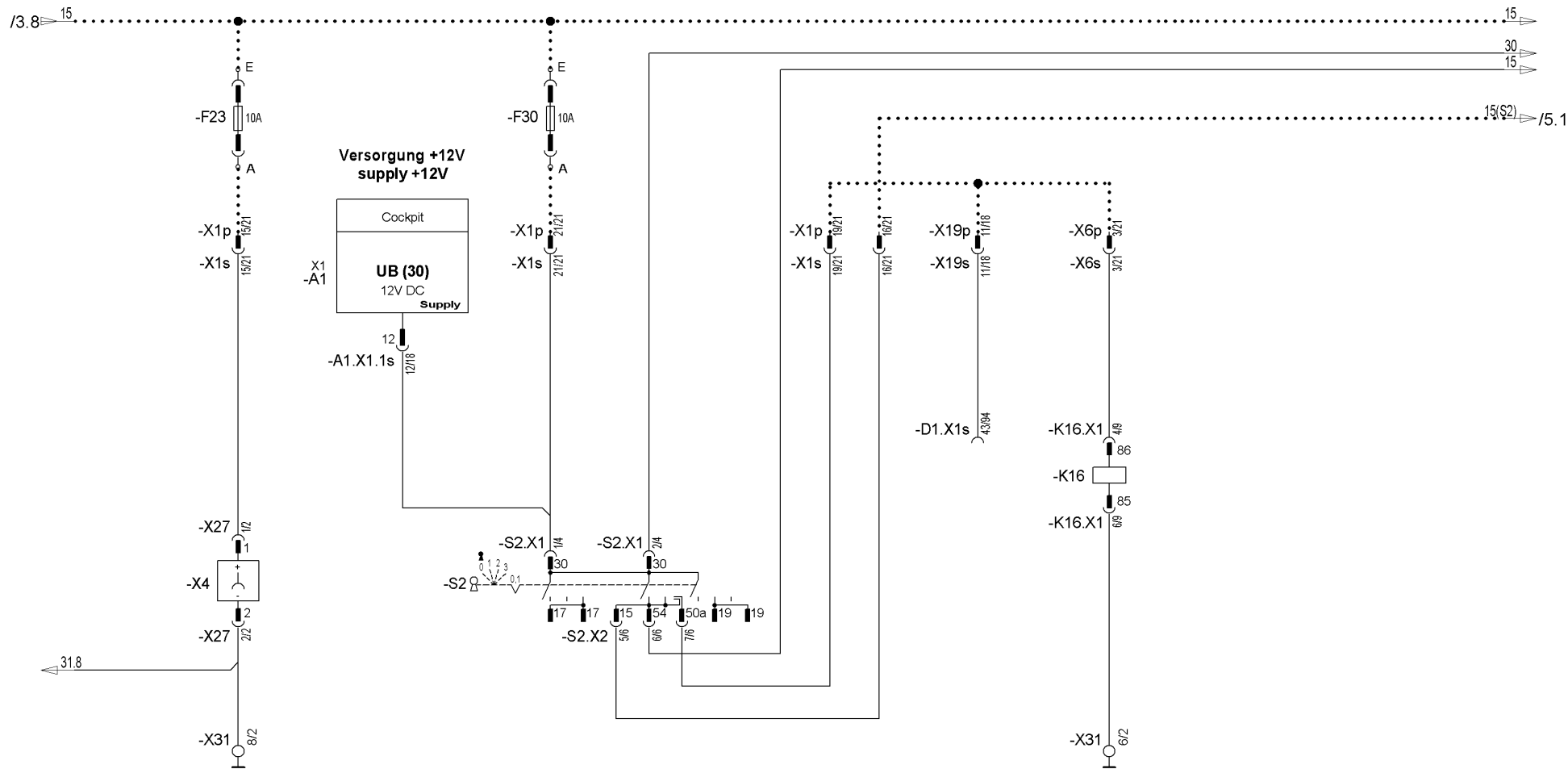
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name Lan	name	name	PF = prototype release	Partial Document No.:	Series code:	Valid for Serial No.:		
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Steckdose Lenksäule
Socket Steering column

S2:
Zünd-Startschalter
Ignition switch

K16:
Startrelais
Starting relay

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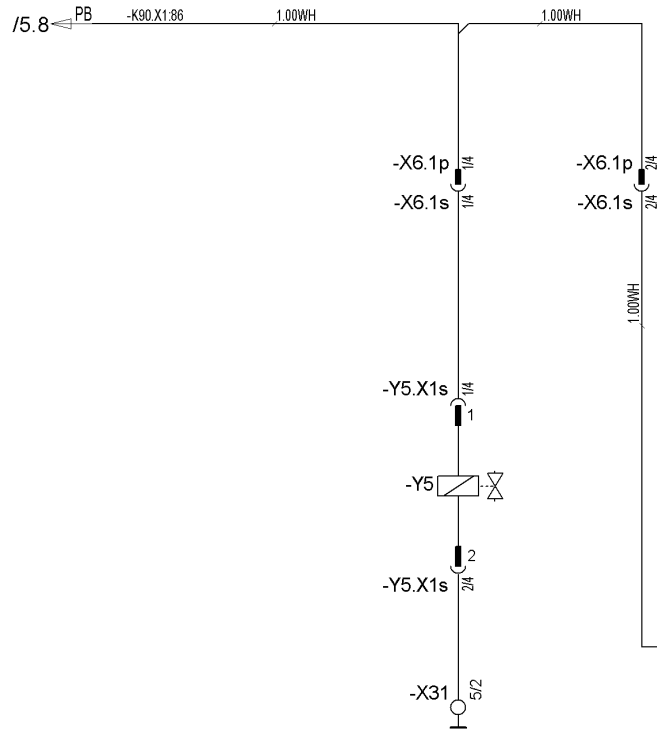
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Zündschloß, Spannungsverteilung
Ignition lock, power distribution

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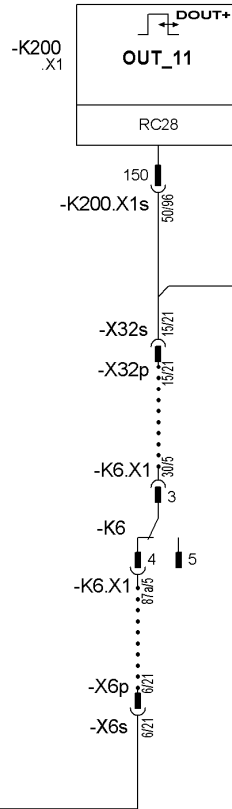
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E - CAE		Document type: EL.PLAN		Function group No.:		SF = serial release				S3000		from to		15	
				06						Sheet plant:				Sheets	
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Ventil Parkbremse
Valve Parking brake

S3000 mit Mikrokontroller RC28
S3000 with Microcontroller RC28

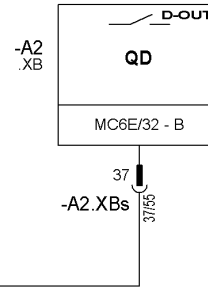
Bremse lösen Ventil
release break valve



Alternativ
alternative

S3000 mit Mikrokontroller MC6
S3000 with Microcontroller MC6

Bremse lösen Ventil
release break valve



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Parkbremse
Parking brake

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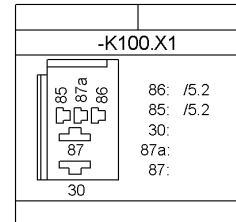
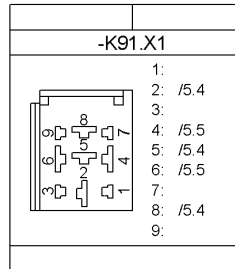
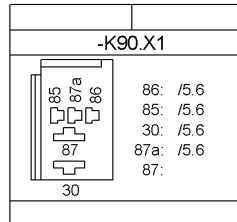
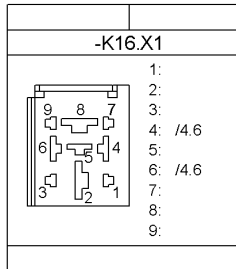
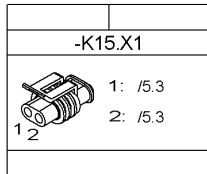
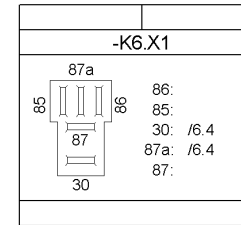
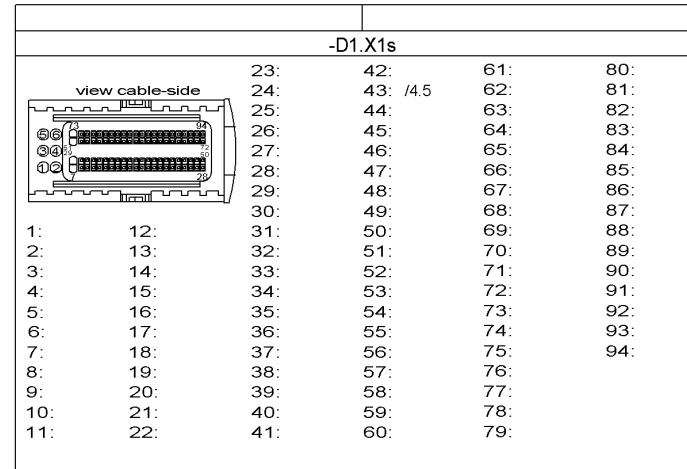
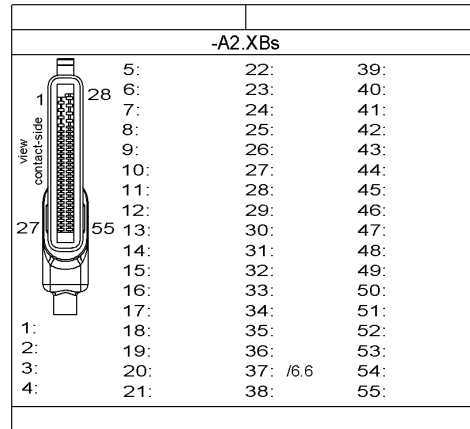
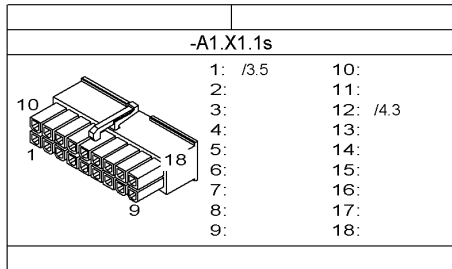
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Übersicht Steckerbelegung
General arrangement Plug occupancy

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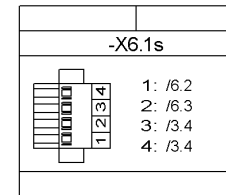
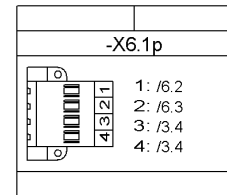
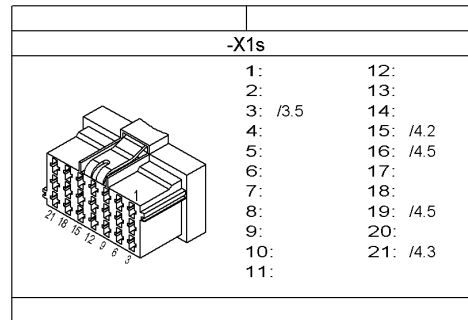
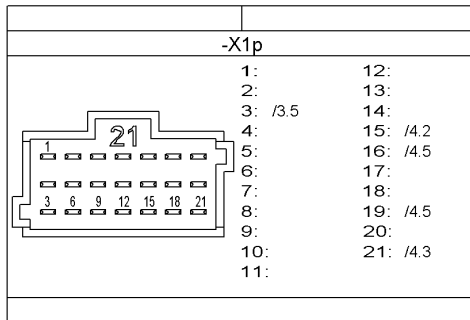
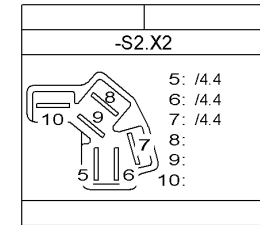
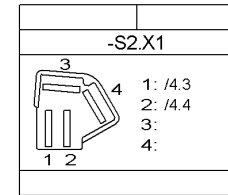
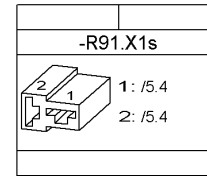
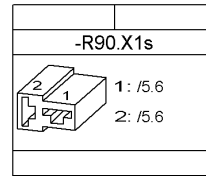
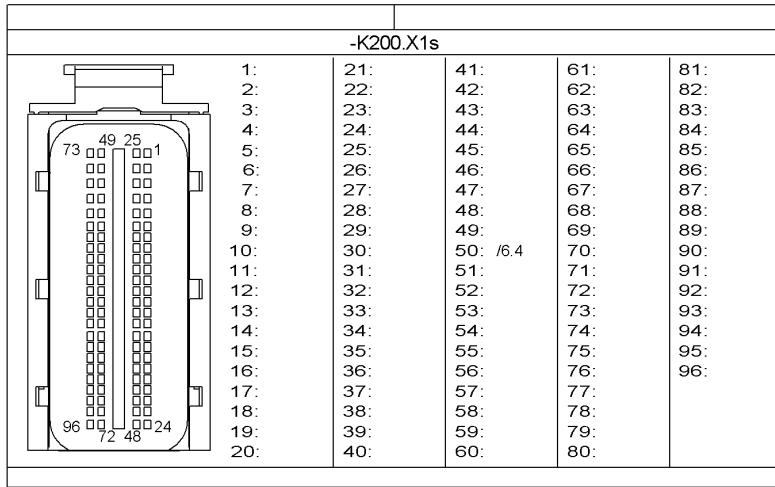
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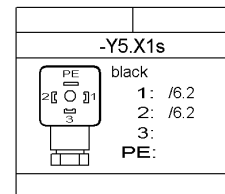
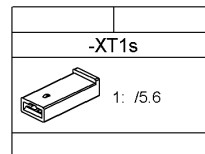
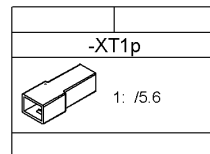
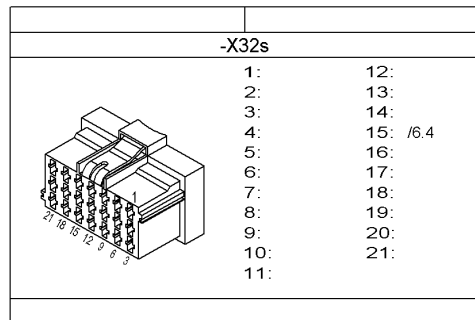
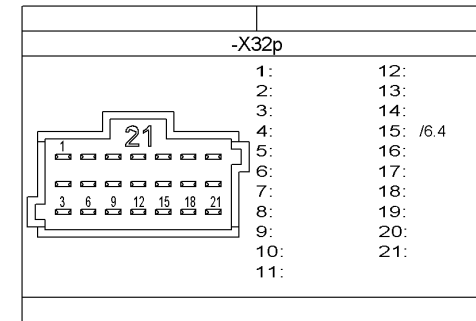
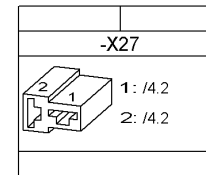
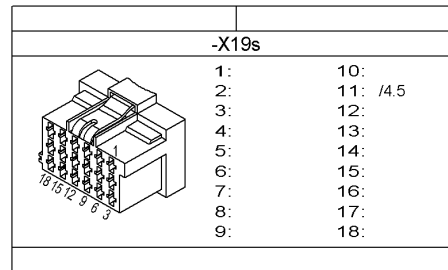
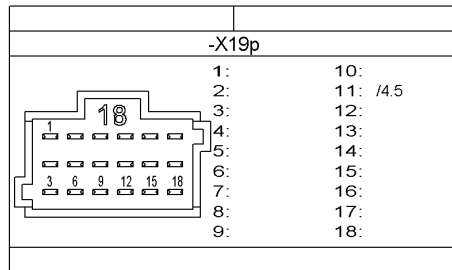
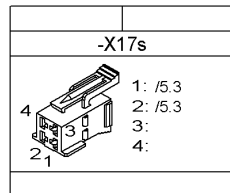
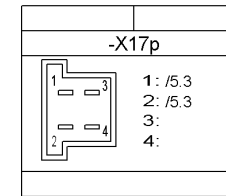
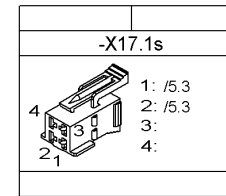
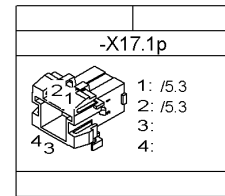
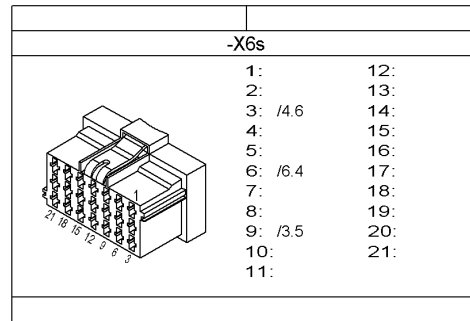
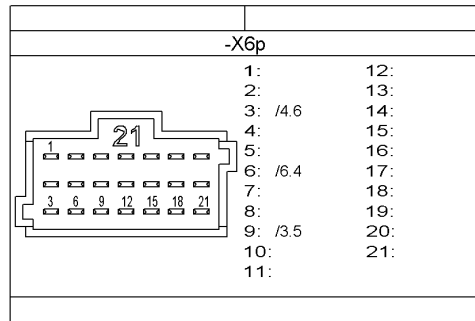
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Übersicht Steckerbelegung
General arrangement Plug occupancy

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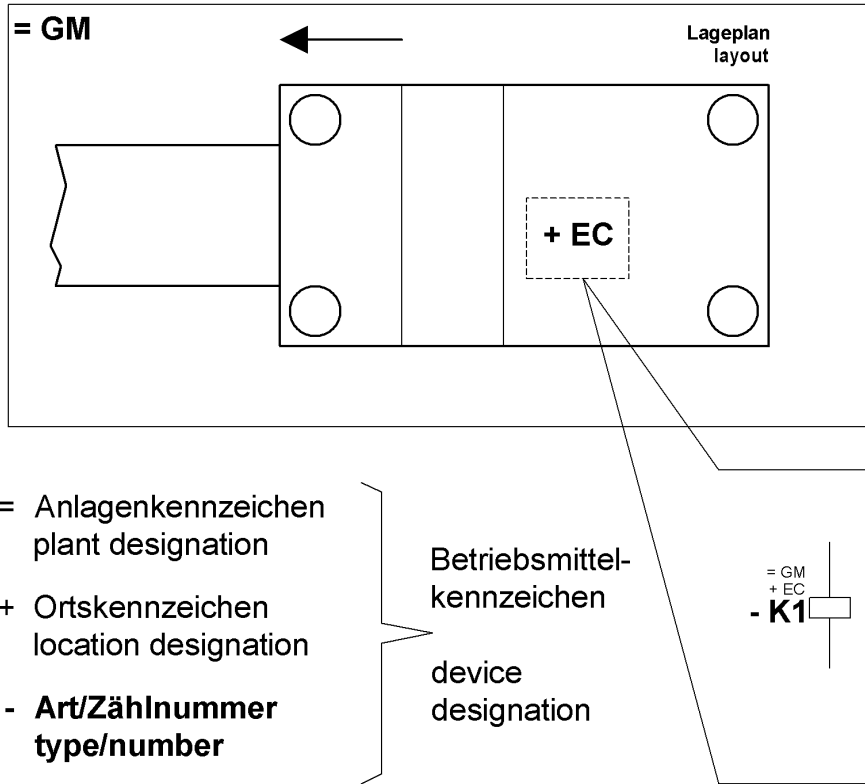


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Übersicht Steckerbelegung
General arrangement Plug occupancy

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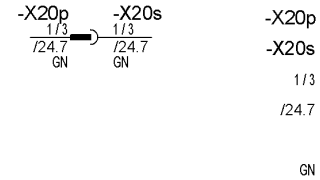
Aufbau Betriebsmittelkennzeichen / device designation configuration



- Minimales Betriebsmittelkennzeichen: Nur Art/Zählnummer
minimal device designation: type/number only
- Maximales Betriebsmittelkennzeichen: Anlagenkennzeichen, Ortskennzeichen und Art/Zählnummer
maximum device designation: plant designation, location designation and type/number
- **Anlagenkennzeichen, Ortskennzeichen und Art/Zählnummer sind nur IN KOMBINATION eindeutig!**
plant designation, location designation and type/number are only explicitly IN COMBINATION!

Bezeichnungserklärungen / designation explanations

Stecker zu Stecker Verbindung / connector to connector connection



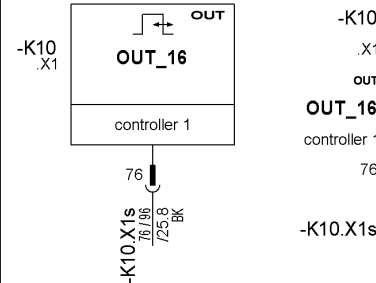
Deutsch

p = Stiftkontakt
s = Buchsenkontakt
Kontakt 1 von 3 Kontakten
Steckermaster auf Blatt 24,
Strompfad 7
Gehäusefarbe Stecker = Grün

English

p = pin contact
s = socket contact
contact 1 of 3 contacts
connector master on sheet 24,
current path 7
connector housing colour = green

Gerät zu Stecker Verbindung / device to connector connection



-K10
.X1
OUT
controller 1
76

-K10.X1s
Art/Zählnummer Gegenstecker
(Stecker erbt zusätzlich zur
eigenen Art/Zählnummer, die
Art/Zählnummer des Gerätes
an dem er angeschlossen ist.
Dadurch ist eine eindeutige
Zuordnung von Gerät und
zugehörigem Stecker möglich)

Art/Zählnummer Gerät
Anschlussstecker X1 am Gerät
Schnittstellentyp
Schnittstellenname
Gerätename
Kontakt des Anschlusssteckers

type/number device
connector plug X1 on device
interface type
interface name
device name
contact of connector plug
type/number mating connector
(connector inherits additionally to
its own type/number, the
type/number of the device it is
connected to.
Thus permits a clear allocation of
device and appendant mating
connector)

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Erklärung Aufbau Betriebsmittelkennzeichen
Explanation device designation layout

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Gerätekennbuchstaben, elektrisch (beispielhaft) / device code letter, electric (exemplified)					
<u>Gerätekennbuchstabe / device code letter</u>	<u>Deutsch</u>	<u>English</u>	<u>Gerätekennbuchstabe / device code letter</u>	<u>Deutsch</u>	<u>English</u>
- A	Bauteile mit zwei oder mehr Aufgaben Dieselmotor Radio	devices with two or more tasks diesel engine radio	- P	Hupe Leuchtdiode Signallampe Fahrtenschreiber anzeigendes Messgerät	horn light emitting diode signal lamp tachograph displaying measuring instrument
- B	Sensor Näherungsschalter Messwandler	sensor proximity switch measuring transformer	- R	Diode Widerstand	diode resistor
- C	Kondensator	capacitor	- S	Schalter	switch
- E	Heizung Lampe Leuchte	heating lamp light	- T	Gleichrichter Verstärker Transformator Frequenzwandler	rectifier amplifier transformer frequency converter
- F	Sicherung Leitungsschutzschalter Motorschutzschalter	fuse circuit breaker motor protection switch	- W	Kabel Elektrische Leitung Sammelschiene	cable wire bus bar
- G	Batterie Generator	battery generator	- X	Klemme Klemmenleiste Steckdose	terminal terminal strip outlet
- K	Relais Schütz Regler Prozessrechner SPS-Steuerung	relay contactor controller process computer programmable logic controller (PLC)			
- M	Elektromotor Betätigungsspule	electric motor coil			

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Erklärung Gerätekennbuchstaben, elektrisch Explanation device code letter, electric
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Gerätekennbuchstaben, hydraulisch (beispielhaft) / device code letter, hydraulic (exemplified)		
<u>Gerätekennbuchstabe / device code letter</u>	<u>Deutsch</u>	<u>English</u>
- HA	Ventilblock	valve-block
- HG	Hydraulikpumpe	hydraulic pump
- HK	Mengenteiler Prioritätsventil Stromregelventil hydraulisch	flow divider priority valve hydraulic flow control valve
- HM	Hydraulikmotor Hydraulikzylinder	hydraulic motor hydraulic cylinder
- HQ	Bremsventil Kugelhahn Lenkeinheit Wegeventil	braking valve ball valve steering unit direction control valve
- HV	Hydraulikfilter	hydraulic filter
- Ma	Ventil Magnetspule a	valve coil a
- Mb	Ventil Magnetspule b	valve coil b

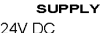
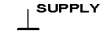
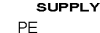
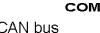
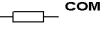
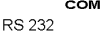
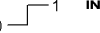
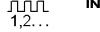
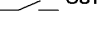
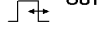
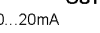
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Erklärung Gerätekennbuchstaben, hydraulisch Explanation device code letter, hydraulic
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Symbolerklärungen * / symbol explanations *			
Symbol / symbol	Bedeutung / standing	Symbol / symbol	Bedeutung / standing
 SUPPLY 24V DC	Spannungsversorgung power supply	 OUT	Rechteckgenerator square-wave generator
 SUPPLY	Masse ground	 ECU	Anschluss Motorsteuergerät connection to engine control unit
 SUPPLY PE	Schutzleiter protection earth	*Standardsymbole sind von DIN EN 60671 abgeleitet Standard symbols are derived from DIN EN 60617	
 COM CAN bus	CAN Busleitung CAN bus line		
 COM	Abschlusswiderstand terminating resistor		
 COM RS 232	RS 232 Schnittstellenleitung RS 232 interface circuit		
 0 1 IN	Digitaleingang (allgemein) digital input (in general)		
 IN	Pulseingang pulse input		
 1,2... IN	Zählereingang counter input		
 IN	Spannungseingang voltage input		
 IN	Stromeingang current input		
 IN	Widerstandseingang resistance input		
 IN	Frequenzeingang frequency input		
 OUT	Digitalausgang digital output		
 OUT	Pulsweitenmodulationsausgang pulse width modulation output		
 OUT 0...20mA	analoge Stromquelle analogue current supply		

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Symbolerklärung Funktionseinheiten
Symbol explanation of functional units

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Sheets

Linienformate / line formats			Farbbezeichnungen / colour designations		
<u>Linienart / line type</u>	<u>Linienstärke / Grafik / line thickness / graphic</u>	<u>Bedeutung / standing</u>	<u>Abkürzungen Farbbezeichnungen / colour abbreviations</u>	<u>Deutsch</u>	<u>English</u>
Volllinie / solid line	 0,25mm	Standard / standard	BU	blau	blue
			BN	braun	brown
Strichpunktlinie / dash-dotted line	 0,25mm	PE (Schutzerde) / PE (protecting earth)	YE	gelb	yellow
			GN	grün	green
Strichlinie / dashed line	 0,25mm	Bauteilumrandung, bzw. Zusammengehörigkeit / component border, togetherness	GY	grau	grey
			OG	orange	orange
Strichlinie / dashed line	 0,25mm	Optionen / options	PK	rosa	pink
			RD	rot	red
Punktlinie / dotted line	 0,75mm	Leiterbahnverbindungen einer Platine (nicht als Drahtleitung ausgeführte Verbindung) / conductor line of a edge board	BK	schwarz	black
			TQ	türkis	turquoise
			VT	violett	violet
			WH	weiss	white

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Erklärung Linienformate, Farbbezeichnungen Explanation line formats, colour designations

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Betriebsmittelkennzeichen / Device designation	Blatt / Sheet	Betriebsmittelkennzeichen / Device designation	Blatt / Sheet	Betriebsmittelkennzeichen / Device designation	Blatt / Sheet
-A1	/4.3	-K100	/5.2	-X17.1p	/9.5
-A1	/3.5	-K100.X1	/7.6	-X17.1s	/9.6
-A1.X1.1s	/7.1	-K200	/6.4	-X17p	/9.7
-A2	/6.6	-K200.X1s	/8.2	-X17s	/9.1
-A2.XBs	/7.3	-KL15	/3.6	-X19p	/9.3
-D1.X1s	/7.6	-KL30	/3.6	-X19s	/9.5
-F01	/3.2	-KL30	/3.6	-X27	/9.6
-F02	/3.3	-KL31	/3.6	-X31	/3.4
-F03	/3.3	-KL31	/3.5	-X31.C	/3.3
-F20	/3.5	-KL31	/3.7	-X31.Ch	/3.2
-F20X1	/3.5	-R1	/3.7	-X32p	/9.8
-F23	/4.2	-R90	/5.6	-X32s	/9.1
-F23X1	/4.2	-R90.X1s	/8.4	-XT1p	/9.3
-F30	/4.3	-R91	/5.4	-XT1s	/9.4
-F30X1	/4.3	-R91.X1s	/8.5	-Y5	/6.2
-FL	/3.7	-S1	/3.2	-Y5.X1s	/9.5
-G1	/3.2	-S2	/4.3		
-G2 +DE	/3.3	-S2.X1	/8.6		
-K6	/6.4	-S2.X2	/8.8		
-K6.X1	/7.8	-V5	/3.7		
-K15	/5.3	-W1	/3.2		
-K15.X1	/7.1	-X1p	/8.1		
-K16	/4.6	-X1s	/8.4		
-K16.X1	/7.2	-X4	/4.2		
-K90	/5.6	-X6.1p	/8.5		
-K90.X1	/7.3	-X6.1s	/8.6		
-K91	/5.5	-X6p	/9.1		
-K91.X1	/7.4	-X6s	/9.4		

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Betriebsmittelliste
device list

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