

**Daimler AG
MAN Truck & Bus AG**

**Scania AB
Volvo / Renault Trucks**

**Iveco SpA
DAF Trucks N.V.**

FMS-Standard / Tachograph Remote Download Connector description

Vers. 02.00

14.09.2012

Daimler AG MAN Truck & Bus AG		Scania AB Volvo / Renault Truck	Iveco SpA DAF Trucks N.V.	Name of document Tachograph Remote Download / FMS-Standard Connector		Page 2 (4)
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Subject Tachograph Remote Download / FMS-Standard connector description				Reg. no.		

GENERAL NOTES

Please note :

- **The presence of the connector does not indicate that tachograph remote downloading and/or FMS-Standard messages are available !**
- **Requirements for termination of the bus are different !**
- **Refer to the bodybuilder guide lines or instructions for proper connection to the vehicle !**
- **For more details, please contact your local dealer or the manufacturer**

Version 2.00:

*** added D8 signal from tachograph to the connector (option)**

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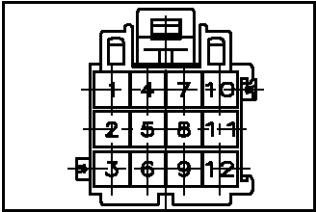
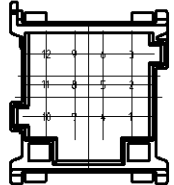
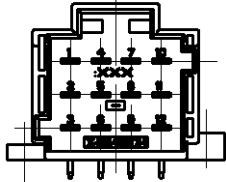
PINNING FOR 24V AND 12V VEHICLES

24 V vehicles		
FMS-Standard connector: AMP 12 PIN female (vehicle side)		
Signal	Pin	Remarks
clamp 15 (Ubat)	10	Always
clamp 30 (24V)	12	Always
clamp 31 (24V power ground)	1	Always
CAN low	9	Always
CAN high	6	Always
CAN ground or CAN low shield	8	Option
CAN high shield	5	Option
clamp 15R (Ubat)	11	Option
12 V+	3	optional for 24V vehicles
12 V ground	4	optional for 24V vehicles
Reserved	2	Reserved
D8 from tachograph	7	Option
minimum 100mA for clamp 15 and 15R (might be not more)		
minimum 5A for clamp 30 (more is fuse dependant)		
minimum current for Pin 3 is OEM specific in 24V vehicles		
Coding A		
Colour : yellow green RAL 6018		

12 V vehicles		
FMS-Standard connector: AMP 12 PIN female (vehicle side)		
Signal	Pin	Remarks
clamp 15 (Ubat)	10	Always
clamp 30 (24V)	12	optional for 12V vehicles
clamp 31 (24V power ground)	1	optional for 12V vehicles
CAN low	9	Always
CAN high	6	Always
CAN ground or CAN low shield	8	Option
CAN high shield	5	Option
clamp 15R (Ubat)	11	Option
12 V+	3	Always
12 V ground	4	Always
Reserved	2	reserved
D8 from tachograph	7	Option
minimum 100mA for clamp 15 and 15R (might be not more)		
minimum 5A for cl. 30 (more is fuse dependant)		
minimum current for Pin 3 is tbd.		
Coding A		
Colour : yellow green RAL 6018		

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EXAMPLE TYCO (24 V VEHICLES)

	Tyco Electronics AMP		<i>female / male</i>	Coding	Sketch	Tyco Electronics AMP Drawing NO
	Connector	ORDER NO				
Vehicle side	JUNIOR POWER TIMER RECEPTACLE HOUSING	1-967622-1	<i>female</i>	A (RIBS B-C)		1355071
Telematic ECU side	JUNIOR POWER TIMER TAB HOUSING (wired)	1-967627-1	<i>male</i>	A (RIBS B-C)		1355072
	JUNIOR POWER TIMER TAB HEADER (PCB)	9-966140-3	<i>male</i>	A (RIBS B-C)		966140

More details can be found on www.tycoelectronics.com.