MOBILE ELECTRONICS



TECHNICAL CATALOG





Methodology:

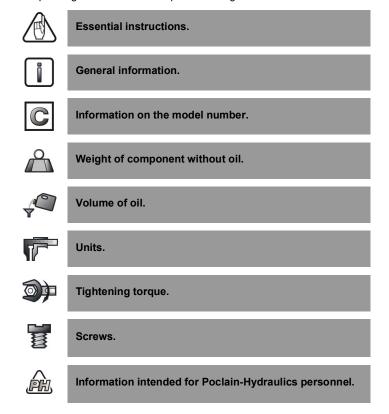
This document is intended for manufacturers of machines that incorporate Poclain Hydraulics products. It describes the technical characteristics of Poclain Hydraulics products and specifies installation conditions that will ensure optimum operation.

This document includes important comments concerning safety as well as the installation guide that must be read before any installation (https://poclain.com/resources). Important comments are indicated in the following way:



Safety comment.

This document also includes essential operating instructions for the product and general information. These are indicated in the following way:

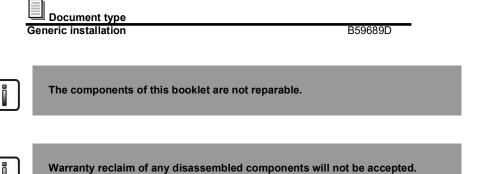


The views in this document are created using metric standards.

The dimensional data is given in mm and in inches (inches are given in brackets in italics).



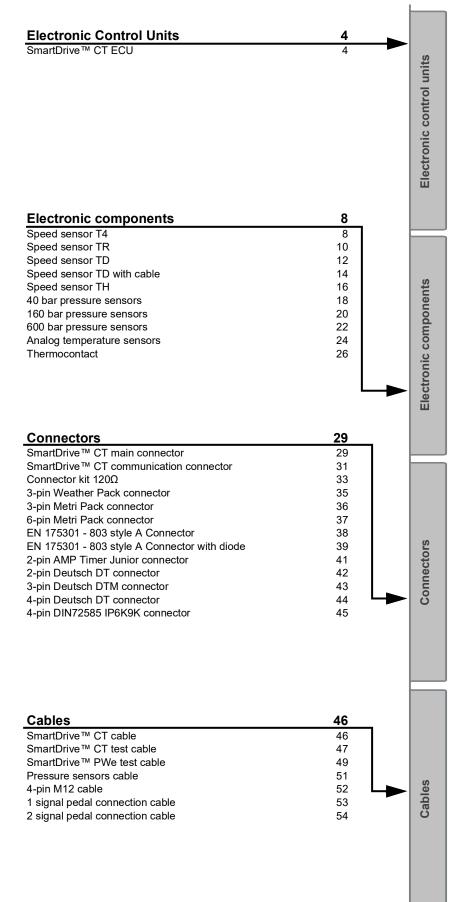
Associated documents





CONTENT





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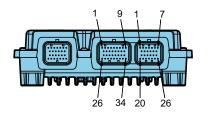


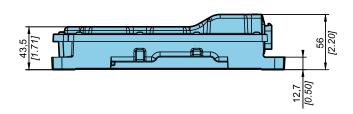
SMARTDRIVE™ CT ECU

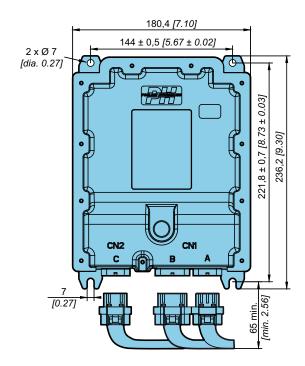


Commercial name		SD-CT-200	SD-CT-300
Part number		A46841P	A46842Q
Operating voltage		8 V to	o 32 V
Operating temperature		- 40°C to 85°C	[-40 °F to 185°F]
Overall dimensions		See	below
Material		- PA66 plastic with 2 - Silico	AlSi ₉ Cu ₃ (Box) 0% of fiberglass (cap) on (seal)
Mass			kg ±10% bj ±10%
Mounting			7 mm ?75" dia.]
Controller Ingress Prote mounted	ction with counterpart connectors	IP67 (according to	EN60529 oct 1992)
Max. quiescent current	consumption (ignition switched off)	5	mA
12V system max curren	t	35	,4 A
24V system max curren	t	17	7 A
Maximum usage	12V System: (Supply voltage 16V)	- 6 HSD PWM outputs 400Hz, 95% 8 Ω loads - 4 HSD digital outputs on, 6.15 Ω loads	- 8 HSD PWM outputs 400Hz, 95% 8 Ω loads - 4 HSD digital outputs on, 6.15 Ω loads - 4 HSD digital outputs on, 8 Ω loads
profile:	24V System: (Supply voltage 32V)	- 6 HSD PWM outputs 400Hz, 95% 32Ω loads - 4 HSD digital outputs on, 32Ω loads	- 8 HSD PWM outputs 400Hz, 95% 32Ω loads - 8 HSD digital outputs on, 32Ω loads
Performance level		Capacity to reach PL d level according to ISO13849:2015 standard	
Mean Time To Failure (MTTF)		85,1 years (ambient temperature of 40°C [104°F]) with operating profil of 11,87% (4 hours per day, 5 days per week, 52 weeks per year)	66,7 years (ambient temperature of 40°C [104°F]) with operating profil of 11,87% (4 hours per day, 5 days per week, 52 weeks per year)
Mean Time To Dangero	us Failure (MTTFd)	224.2 years	173.1 years
Diagnostic Coverage (D	C)	90,9% (medium)	90,7% (medium)
Category		2	2
Electrical protection		Over-voltage, reverse polarity, ground and battery short circuit	
Microcontroller		One 32 bits microcontroller and one 8 bits microcontroller	
ECU programming		Programming with a PC using the PHASES™-CT software application	
ECU set-up		Set-up with the software PHASES™-CT	
Universal inputs (UN)		9	15
Analog inputs (AN)		11	17
Frequency inputs (FIN)		5	8
Wake-Up Input (WUI)		1	1
Ground sense input (GND_SENSE)		1	1
HSD PWM 2A outputs		6	8
HSD DIG 2,6A outputs		4	4
HSD DIG 2A outputs		0	4
Low Side Digital output (LSD) 4A		0	3
Low Side Digital output (LSD) 5,2A		3	3
Sensor supply 5V		1	1

Overall dimensions of the ECU







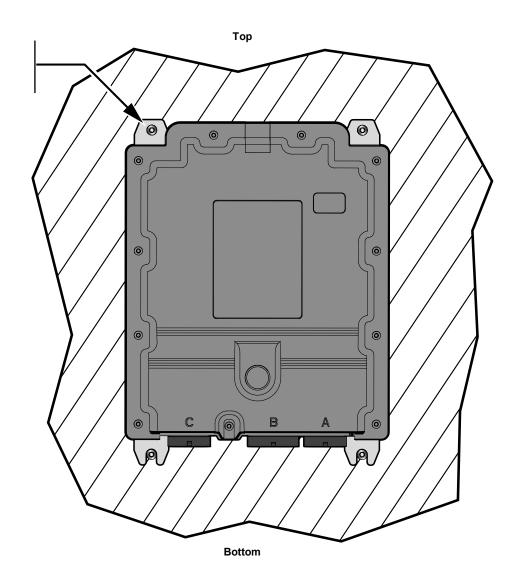


Fitting the controller

The controller must be fixed on a rigid support. Make sure that there is enough space to fit the connector (min. 65 mm [min. 2.56 in]). The controller shall be preferably mounted in vertical position (connectors at the bottom) to enhance ventilation and avoid dust accumulation on cooling fins.

The controller's housing has to be connected to the ground (chassis) of the vehicle and to be installed on a flat surface (flatness of 0,5/100x100mm [3.94x3.94 in]).

Screw (X4): M6 Nut (x4): M6 Shim (x4): M6 Tightening torque: 6 Nm



Electrical connections	Commercial name	Part number	
SmartDrive™ CT main connector	KIT-CONNECT-SD-CT-200	A48149L	naga 20
Siliariblive ···· C1 Ilialii collilectoi	KIT-CONNECT-SD-CT-300	A48140B	page 29
SmartDrive™ CT communication connector	KIT-CONNECT-COM-M-SD-CT	A48693C	page 31
Connector kit 120Ω	KIT-PLUG-120-DTM-2S	A52539H	page 33
SmartDrive™ CT-200 cable	CABLE-SD-CT-200-60-5000	A48878D	page 89
SmartDrive™ CT-300 cable	CABLE-SD-CT-300-86-5000	A48877C	page 46



Electronic control units

Electronic components



SPEED SENSOR T4



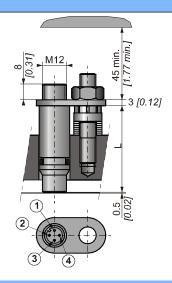
✓ No detection of the rotation direction.

Commercial name	SPD-SENS-T4-12-44	SPD-SENS-T4-12-53	SPD-SENS-T4-12-62
Part number	B61287Q	B61288R	B61289S
Lenght L(*)	44 [1.73]	53 [2.09]	62 [2.44]
Function	Detect movements: rotation speed		
Compatibility	Electronic transmission management		

(*): According to the size of the motor, consult your Poclain Hydraulics sales engineer

Features		
Supply voltage	8 - 32 V	
Output type	 1 push-pull square frequency signal Maximum load current: 20 mA Voltage at low state: < 1.5 V Voltage at high state: > (power supply voltage - 3.5 V) 	
Signal type	Frequency	
Maximum range	1.15 mm <i>[0.045"]</i>	
Current consumption	20 mA max.	
Frequency range	0 to 15 kHz	
Operating temperature	- 40°C to + 125°C [- 40°F to 257°F]	
Material	Stainless steel housing	
Protection rating	IP68 (sensitive side) / IP67 (connector side)	
Electrical protection	Protected against reverse polarity, short circuit to ground and supply	
Mean Time To Failure (MTTF)	1 338 years with operating profile of 21% (8h per day, 229 days per year) Calculated according ISO13849-1 with component database SN29500	
Mean Time To Dangerous Failure (MTTFd)	2 677 years	

Layout



Installation

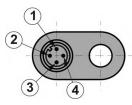
Disconnecting the accessories and speed set up

In the case of motors predisposed to speed, the existing shutter needs to be removed and eliminated before installing the sensor and its attachment device.

To install the sensor, see the "Installation guide" brochure No. B61352L.

Connection of the speed sensor

Remove the plastic plug on the connector.



Function	Pin number
Power supply	1
Not present	2
Ground	3
Square frequency signal	4

For the connection of connectors, please refer to the connection table and the general cabling plan contained in the installation brochure for your transmission.

Electrical connections	90°	180°
Commercial name	ELEC-CABLE-M12-90°-5000	ELEC-CABLE-M12-180°-5000
Part number	A04999J	A07468S
	page 52	page 52



In case of using an M12 90° cable (A04999J), pay attention to the alignment of the elbow with the sensor's bracket to avoid twisting the sensor's connector pins.



The M12 nut must be tightened with a tightening torque from 0.6 Nm (hand-tight) to 1.5 Nm (using a torque wrench). An excessive tightening can damage the M12 connector.



Sensor must be powered on after installation (fixing on motor's cover and counterpart connector assembled).



SPEED SENSOR TR



✓ Detection of the rotation direction.

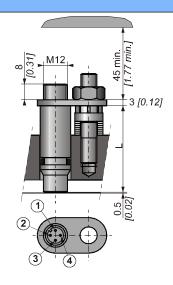
Commercial name	SPD-SENS-TR-12-44	SPD-SENS-TR-12-53	SPD-SENS-TR-12-62
Part number	B61291U	B61292V	B61293W
Lenght L (*)	44 [1.73]	53 [2.09]	62 [2.44]
Function	Detect movements: rotation speed and rotation direction		
Compatibility	Electronic transmission management		

(*): According to the size of the motor, consult your Poclain Hydraulics sales engineer

Features		
Supply voltage	8 - 32 V	
Output type	 1 push-pull square frequency signal 1 push-pull direction signal Maximum load current: 20 mA Voltage at low state: < 1.5 V Voltage at high state: > (power supply voltage - 3.5 V) 	
Signal type	Frequency	
	Direction	
Maximum range	1.15 mm <i>[0.045"]</i>	
Current consumption	20 mA max.	
Frequency range	0 to 15 kHz	
Instantaneous frequency deviation	10% with sensor mounted on Poclain Hydraulics motors	
Operating temperature	- 40°C to + 125°C [- 40°F to 257°F]	
Material	Stainless steel housing	
Protection rating	IP68 (sensitive side) / IP67 (connector side)	
Electrical protection	Protected against reverse polarity, short circuit to ground and supply	
Mean Time To Failure (MTTF)	717 years with operating profile of 21% (8h per day, 229 days per year) Calculated according ISO13849-1 with component database SN29500	
Mean Time To Dangerous Failure (MTTFd)	1 434 years	



Layout



Installation

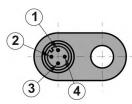
Disconnecting the accessories and speed set up

In the case of motors predisposed to speed, the existing shutter needs to be removed and eliminated before installing the sensor and its attachment device.

To install the sensor, see the "Installation guide" brochure No. B61352L.

Connection of the speed sensor

Remove the plastic plug on the connector.



Function	Pin number
Power supply	1
Direction signal	2
Ground	3
Square frequency signal	4

For the connection of connectors, please refer to the connection table and the general cabling plan contained in the installation brochure for your transmission.

Electrical connections	90°	180°
Commercial name	ELEC-CABLE-M12-90°-5000	ELEC-CABLE-M12-180°-5000
Part number	A04999J	A07468S
	page 52	page 52



In case of using an M12 90° cable (A04999J), pay attention to the alignment of the elbow with the sensor's bracket to avoid twisting the sensor's connector



The M12 nut must be tightened with a tightening torque from 0.6 Nm (handtight) to 1.5 Nm (using a torque wrench). An excessive tightening can damage the M12 connector.



Sensor must be powered on after installation (fixing on motor's cover and counterpart connector assembled).



SPEED SENSOR TD



✓ Detection of the rotation direction.

Commercial name	SPD-SENS-TD-12-44	SPD-SENS-TD-12-53	SPD-SENS-TD-12-62
Part number	B61294X	B61295Z	B61296A
Lenght L (*)	44 [1.73]	53 [2.09]	62 [2.44]
Function	Detect movements: rotation speed and rotation direction		
Compatibility	Electronic transmission management		

(*): According to the size of the motor, consult your Poclain Hydraulics sales engineer

Features		
Supply voltage	8 - 32 V	
Output type	 - 2 push-pull shifted square frequency signals (phase shift from 25° to 155°) - Maximum load current: 20 mA - Voltage at low state: < 1.5 V - Voltage at high state: > (power supply voltage - 3.5 V) 	
Signal type	Frequency 2	
Maximum range	1.15 mm <i>[0.045"]</i>	
Current consumption	20 mA max.	
Frequency range	0 to 15 kHz	
Instantaneous frequency deviation	10% with sensor mounted on Poclain Hydraulics motors	
Operating temperature	- 40°C to + 125°C <i>[- 40°F to 257°F]</i>	

Frequency range 0 to 15 kHz

Instantaneous frequency deviation 10% with sensor mounted on Poclain Hydraulics motors

Operating temperature -40°C to + 125°C [- 40°F to 257°F]

Material Stainless steel housing

Protection rating IP68 (sensitive side) / IP67 (connector side)

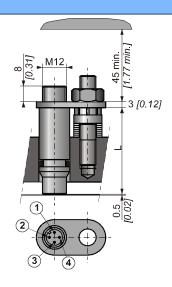
Electrical protection Protected against reverse polarity, short circuit to ground and supply

Mean Time To Failure (MTTF) 717 years with operating profile of 21% (8h per day, 229 days per year) Calculated according ISO13849-1 with component database SN29500

Mean Time To Dangerous Failure (MTTFd) 1 434 years



Layout



Installation

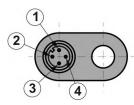
Disconnecting the accessories and speed set up

In the case of motors predisposed to speed, the existing shutter needs to be removed and eliminated before installing the sensor and its attachment device.

To install the sensor, see the "Installation guide" brochure No. B61352L.

Connection of the speed sensor

Remove the plastic plug on the connector.



Function	Pin number
Power supply	1
Square frequency signal n°2	2
Ground	3
Square frequency signal n°1	4

For the connection of connectors, please refer to the connection table and the general cabling plan contained in the installation brochure for your transmission.

Electrical connections	90°	180°
Commercial name	ELEC-CABLE-M12-90°-5000	ELEC-CABLE-M12-180°-5000
Part number	A04999J	A07468S
	page 52	page 52



In case of using an M12 90° cable (A04999J), pay attention to the alignment of the elbow with the sensor's bracket to avoid twisting the sensor's connector pins.



The M12 nut must be tightened with a tightening torque from 0.6 Nm (hand-tight) to 1.5 Nm (using a torque wrench). An excessive tightening can damage the M12 connector.



Sensor must be powered on after installation (fixing on motor's cover and counterpart connector assembled).



SPEED SENSOR TD WITH CABLE



✔ Detection of the rotation direction.

Commercial name	SPD-SENS-TD-12-44-L450	SPD-SENS-TD-12-53-L450	SPD-SENS-TD-12-62-L450
Part number (brass housing)	B62903W	B62904X	B77693X
Lenght L(*)	44 [1.73]	53 [2.09]	62 [2.44]
Function	Detect move	ements: rotation speed and rotat	ion direction
Compatibility	Electronic transmission management		

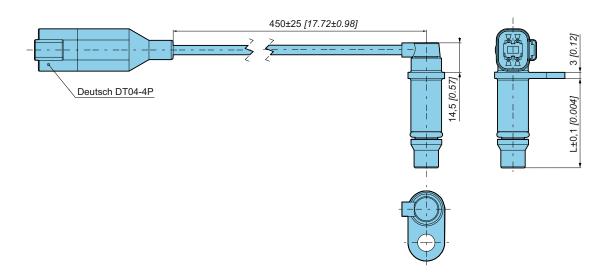
(*): According to the size of the motor, consult your Poclain Hydraulics sales engineer

Features	
Supply voltage	8 - 32 V
Output type	 - 2 push-pull shifted square frequency signals (phase shift from 25° to 155°) - Maximum load current: 20 mA - Voltage at low state: < 1.5 V - Voltage at high state: > (power supply voltage - 3.5 V)
Signal type	Frequency 1
	Frequency 2

Maximum range	1.15 mm <i>[0.045"]</i>
Current consumption	20 mA max.
Frequency range	0 to 15 kHz
Instantaneous frequency deviation	10% with sensor mounted on Poclain Hydraulics motors
Operating temperature	- 40°C to + 125°C [- 40°F to 257°F]
Material	Brass housing
Protection rating	IP68 (sensitive side) / IP69K with mating conenctor (connector side)
Electrical protection	Protected against reverse polarity, short circuit to ground and supply
Mean Time To Failure (MTTF)	717 years with operating profile of 21% (8h per day, 229 days per year) Calculated according ISO13849-1 with component database SN29500
Mean Time To Dangerous Failure	1.434 years

Mean Time To Dangerous Failure (MTTFd) 1 434 years

Layout



Installation

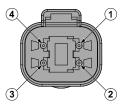
Disconnecting the accessories and speed set up

In the case of motors predisposed to speed, the existing shutter needs to be removed and eliminated before installing the sensor and its attachment device.

To install the sensor, see the "Installation guide" brochure No. B61352L.

Connection of the speed sensor

Deutsch connector : DT04-4P



Function	Pin number	
+Vdc	1	
Ground GND	2	
Frequency output S1	3	
Frequency output S2	4	

For the connection of connectors, please refer to the connection table and the general cabling plan contained in the installation brochure for your transmission.

Electrical connections

Commercial name	KIT-CONNECT-4-PIN-DEUTSCH		
Part number	A39961L		
	page 67		

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Mean Time To Failure (MTTF)

16

SPEED SENSOR TH



✓ High resolution speed sensor

Commercial name	SPD-SENS-TH-12-44-P1- DTM4	SPD-SENS-TH-12-53-P1- DTM4	SPD-SENS-TH-12-62-P1- DTM4
Part number	B75159T	B75160U	B75161V
Lenght L(*)	44 [1.73]	53 [2.09]	62 [2.44]
Hydraulic motor compatibility		MK04 (**)	
Function	Detect moven	nents: High rotation speed and rot	ation direction
Compatibility	Е	lectronic transmission manageme	nt

^{(*):} According to the size of the motor, consult your Poclain Hydraulics sales engineer.
(**): In case of request for other motors, please contact your Poclain Hydraulics application engineer in matter of feasibility.

Features			
Supply voltage	9 - 32 V		
Current consumption	20 mmax. no load		
Protection	Overvoltage (36 V DC), reverse v	oltage (36 V DC)	
Output type	 - 2 push-pull square wave signal - Max. load current: 20 mA per channel - Voltage at low state: < 0.9 V - Voltage at high state: > (power supply voltage - 3.5 V) - Output protected against short-circuits 		
Direction signal	The 2 output signals allow to dete	Direction of the role of the r	Direction of rotation B

	S2: Square wave signal 2	
Frequency range	0 to 30 kHz	
Resolution range	Resolution depends of the magnetic target ring that is assembled in the motor. The resolution is specific for each motor MK04: 888 pulses / rev - MS02: 960 pulses / rev *** - MHP27: 1 824 pulses / rev *** (***): Product in development. Consult your Poclain Hydraulics sales engineer.	
Speed measuring accuracy	± 3% typ.	
Operating temperature	- 40°C to + 105°C [- 40°F to 221°F]	
Material	Stainless steel	
Protection rating	IP6K9K	
EC certificate	NF EN 14982: Agricultural and forestry machinery - Electromagnetic compatibility	
	NF EN ISO 13766-1: Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of internally powered machines	

NF EN 12895: Industrial trucks - Electromagnetic compatibility

208 years with operating profile of 21% (8h per day, 229 days per year)

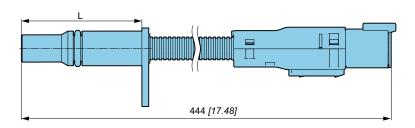
Calculated according ISO13849-1 with component database UTE C 80-810

Features

Mean Time To Dangerous Failure (MTTFd)

416 years

Layout

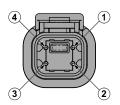


Installation

To install the sensor, see the "Installation guide" brochure No. B61352L.

Connection of the speed sensor

Deutsch connector: DTM04-4P



Function	Pin number
Ground	1
Output signal S2	2
+VBAT	3
Output signal S1	4

For the connection of connectors, please refer to the connection table and the general cabling plan contained in the installation brochure for your transmission.

Electrical connections

Commercial name	KIT-CONNECT-DTM-4S-NW8.5
Part number	B59113C

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40 BAR PRESSURE SENSORS



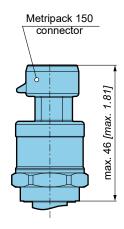


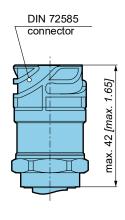


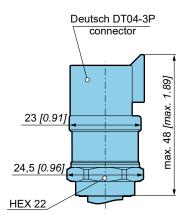
Commercial name	PRES-SENS-40B-G1/4-MP3	PRES-SENS-40B-G1/4-DIN	PRES-SENS-40B-G1/4-DT3
Part number	B58363M	B58368S	B57611U
Hydraulic connection	G1/4A	G1/4A	G1/4A
Electrical conneciton	Metripack 150 (3 pins)	DIN 72585 (3 pins, coding 1)	Deutsch DT04-3P
Ingress protection	IP67	IP6K9K	IP6K9K
Function		Measure the charge pressure	

Features	
Supply voltage (Ub)	5V DC ± 5%
Output signal	10% 90% (0.5V 4,5V at Ub=5V DC)
Output load	> 5k Ohm
Pressure range	40 bar <i>[580 PSI]</i>
Over pressure safety	250 bar [3 626 PSI]
Response time	calibrated 1ms
Accuracy	< 1%
Using temperature range	Ambient - 40 °C to 105 °C [- 40 °F to 221 °F]
	Storage - 40 °C to 100 °C [- 40 °F to 212 °F]
	Medium - 40 °C to 125 °C [- 40 °F to 257 °F]
Electrical protection	Overvoltage: +28,8V
	Polarity inversion: -5,2V
	Against short circuits (GND and Ub)
CE conformity	EN 61000-6-1/2/3/4
Shock resistance	500 g (DIN EN 60068-2-27)
Vibration resistance	25 g (IEC 60068-2-6 from 10 to 500Hz)
Mean Time To Failure (MTTF)	546 years with operating profile of 21% (8h per day, 229 days per year)
Mean Time To Dangerous Failure (MTTFd)	1 092 years

Layout

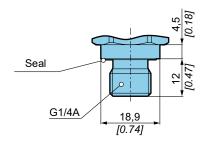








Sensor connection



Tightening torque

Connection	Seal	◎ N.m [lb.ft]
G1/4A (ISO 1179-2)	HNBR	20 (+5Nm) [14.75] (+3.69 lb.ft)

Pinout		
Metripack 150 (3 pins) connector	DIN 72585 (3 pins, coding 1) connector	Deutsch DT04-3P connector
A B	3 1	BACC
A: GND B: +Ub C: Signal	1: +Ub 2: GND 3: Signal	A: +Ub B: Signal C: GND

Electrical connection	Commercial name	Part number	
Cable for pressure sensor connection	CABLE-PRESSURE-SENSOR-3M	003141105U	page 51
Connector kit for DIN72585 connector	KIT-CONNECT-4-PIN-DIN72585	B02394B	page 45
Connector kit for DT04-3P connector	KIT-CONNECT-3-PIN-DEUTSCH	B62766X	page 45



When wiring, check that the wire can neither be cut off, nor torn off when the machine is working or moving.



160 BAR PRESSURE SENSORS









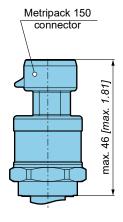


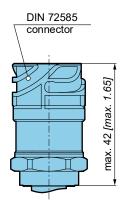
Commercial name	PRES-SENS- 160B-M10-MP3	PRES-SENS- 160B-M10-DIN	PRES-SENS- 160B-M10-DT3	PRES-SENS- 160B-G1/4-MP3	PRES-SENS- 160B-G1/4-DIN
Part number	B58364N	B58369T	B57612V	B58365P	B58370U
Hydraulic connection	M10x1	M10x1	M10x1	G1/4A	G1/4A
Electrical conneciton	Metripack 150 (3 pins)	DIN 72585 (3 pins, coding 1)	Deutsch DT04-3P	Metripack 150 (3 pins)	DIN 72585 (3 pins, coding 1)
Ingress protection	IP67	IP6K9K	IP6K9K	IP67	IP6K9K

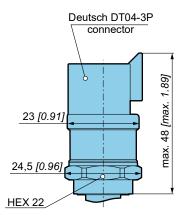
Function Measure the pressure on the brake system

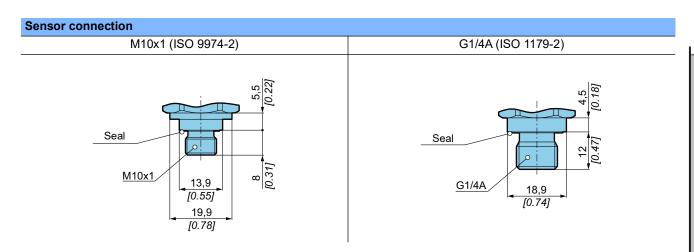
Features	
Supply voltage (Ub)	5V DC ± 5%
Output signal	10% 90% (0.5V 4,5V at Ub=5V DC)
Output load	> 5k Ohm
Pressure range	160 bar <i>[</i> 2 <i>320 PSI]</i>
Over pressure safety	320 bar <i>[4 640 PSI]</i>
Response time	calibrated 1ms
Accuracy	< 1%
Using temperature range	Ambient - 40 °C to 105 °C [- 40 °F to 221 °F]
	Storage - 40 °C to 100 °C [- 40 °F to 212 °F]
	Medium - 40 °C to 125 °C [- 40 °F to 257 °F]
Electrical protection	Overvoltage: +28,8V
	Polarity inversion: -5,2V
	Against short circuits (GND and Ub)
CE conformity	EN 61000-6-1/2/3/4
Shock resistance	500 g (DIN EN 60068-2-27)
Vibration resistance	25 g (IEC 60068-2-6, from 10 to 500Hz)
Mean Time To Failure (MTTF)	546 years with operating profile of 21% (8h per day, 229 days per year)
Mean Time To Dangerous Failure (MTTFd)	1 092 years

Layout









Tightening torque

Connection	Seal		
M10x1 (ISO 9974-1)	,	20 (+2Nm) [14.75] (+1.47 lb.ft)	
G1/4A (ISO 1179-2)	TINDIX	20 (+5Nm) [14.75] (+3.69 lb.ft)	

Pinout		
Metripack 150 (3 pins) connector	DIN 72585 (3 pins, coding 1) connector	Deutsch DT04-3P connector
A: GND	2 3 1: +Ub	B A A C C A: +Ub
B: +Ub C: Signal	2: GND 3: Signal	B: Signal C: GND

Electrical connection	Commercial name	Part number	
Cable for pressure sensor connection	CABLE-PRESSURE-SENSOR-3M	003141105U	page 51
Connector kit for DIN 72585 connector	KIT-CONNECT-4-PIN-DIN72585	B02394B	page 45
Connector kit for DT04-3P connector	KIT-CONNECT-3-PIN-DEUTSCH	B62766X	page 45



When wiring, check that the wire can neither be cut off, nor torn off when the machine is working or moving.



600 BAR PRESSURE SENSORS





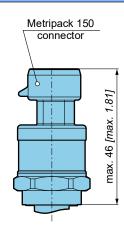


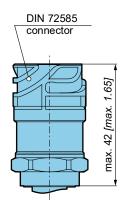
Commercial name	PRES-SENS-600B- 9/16-MP3	PRES-SENS-600B- G1/4-MP3	PRES-SENS-600B- G1/4-DIN
Part number	B58366Q	B58367R	B58371V
Hydraulic connection	9/16-18 UNF-2A	G1/4A	G1/4A
Electrical conneciton	Metripack 150 (3 pins)	Metripack 150 (3 pins)	DIN 72585 (3 pins, coding 1)
Ingress protection	IP67	IP67	IP6K9K

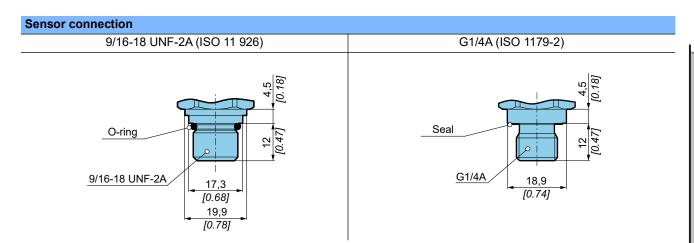
Function Measure the pressure on the high pressure system

Features	
Supply voltage (Ub)	5V DC ± 5%
Output signal	10% 90% (0.5V 4,5V at Ub=5V DC)
Output load	> 5k Ohm
Pressure range	600 bar <i>[8 702 PSI]</i>
Over pressure safety	1200 bar <i>[17 404 PSI]</i>
Response time	calibrated 1ms
Accuracy	< 1%
Using temperature range	Ambient - 40 °C to 105 °C [- 40 °F to 221 °F]
	Storage - 40 °C to 100 °C [- 40 °F to 212 °F]
	Medium - 40 °C to 125 °C [- 40 °F to 257 °F]
Electrical protection	Overvoltage: +28,8V
	Polarity inversion: -5,2V
	Against short circuits (GND and Ub)
CE conformity	EN 61000-6-1/2/3/4
Shock resistance	500 g (DIN EN 60068-2-27)
Vibration resistance	25 g (IEC 60068-2-6, from 10 to 500Hz)
Mean Time To Failure (MTTF)	546 years with operating profile of 21% (8h per day, 229 days per year)
Mean Time To Dangerous Failure (MTTFd)	1 092 years

Layout







Tightening torque

Connection	Seal / O-ring	→ N.m [lb.ft]
9/16-18 UNF-2A (ISO 11 926)	HNBR	20 (+5Nm)
G1/4A (ISO 1179-2)	TINDIX	[14.75] (+3.69 lb.ft)

Metripack 150 (3 pins) connector	DIN 72585 (3 pins, coding 1) connector
A B C C	3
A: GND B: +Ub C: Signal	1: +Ub 2: GND 3: Signal

Electrical connection	Commercial name	Part number	
Cable for Metripack connector	CABLE-PRESSURE-SENSOR-3M	003141105U	page 51
Connector kit for DIN72585 connector	KIT-CONNECT-4-PIN-DIN72585	B02394B	page 45



When wiring, check that the wire can neither be cut off, nor torn off when the machine is working or moving.



ANALOG TEMPERATURE SENSORS



Commercial name	TEMP-SENS-G1/4-M12-7	TEMP-SENSOR-G1/4-DIN-7	TEMP-SENSOR-G1/4-DIN-52		
Part number	B45088H	B31477N	B00091X		
Compatibility	E	Electronic transmission management			
Features					
Supply voltage (Vs)		5V ± 0.5V			
Output signal	Sati	0.5V to 4.5V ratiometric Saturation at 0.4V for temperatures <-23°C [-9.4F]			
Response time		4 s for 50°C <i>[122°F]</i> step 8 s for 90°C <i>[194°F]</i> step			
Accuracy		≤ ± 3% FS			
Permissible pressure		600 bar [8702 PSI]			
Measuring range	-20 to +120°C [-4 to +248°]				
Using temperature range	N	Medium - 40 °C to 120 °C [- 40 °F to 248 °F]			
		Ambient - 40 °C to 100 °C [- 40 °F to 212 °F]			
	Storage - 40 °C to 100 °C [- 40 °F to 212 °F]				
Housing material		Stainless steel 1,4571			
Electrical connection	M12 - 4 pins	M12 - 4 pins DIN 72585 - 4 pins coding 1			
Ingress protection	IP67	IP67 IP6K9K			
Electrical protection		Overvoltage: 14V			
	Reverse polarity				
	Against short circuits (0V and Vs)				
Mean Time To Failure (MTTF)	682 years with	682 years with operating profile of 21% (8h per day, 229 days per year)			
Mean Time To Dangerous Failur (MTTFd)	e	1 364 years			

Mounting

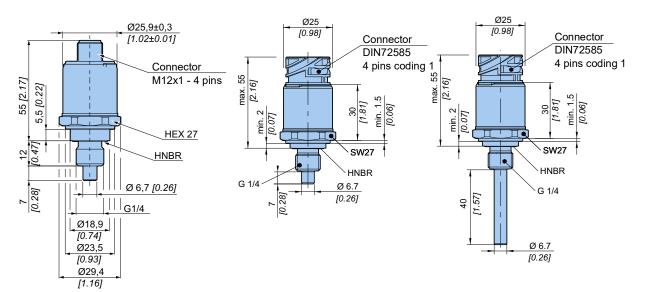
To obtain a good temperature reading put the sensitive part of the sensor in the heart of the fluid stream.

Layout

TEMP-SENS-G1/4-M12-7

TEMP-SENSOR-G1/4-DIN-7

TEMP-SENSOR-G1/4-DIN-52





- 1: Not used
- 2: +UB
- 3: Output signal 0.5V to 4.5V
- 4: Ground



- 1: +5VDC
- 2: Ground
- 3: Output signal 0.5V to 4.5V
- 4: Not used

Hydraulic connection

Connection	Seal	N.m [lb.ft] ± 10 %
G 1/4"	HNBR	20 [14.8]

Electrical connection DIN

Commercial name	KIT-CONNECT-4PIN-DIN72585
Part number	B02394B
	page 71

Electrical connection M12	90°	180°
Commercial name	ELEC-CABLE-M12-90°-5000	ELEC-CABLE-M12-180°-5000
Part number	A04999J	A07468S
	page 52	page 52



When wiring, check that the wire can neither be cut off, nor torn off when the machine is working or moving.

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THERMOCONTACT

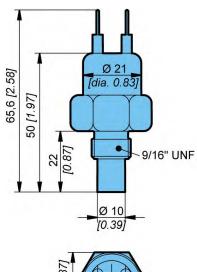


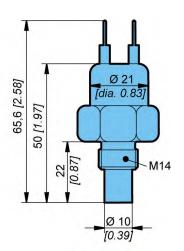
Commercial name	TEMP-SENSOR-M14-90C-NC	TEMP-SENSOR-9/16-90C-NC	
Part number	B37087L	B37088M	
Compatibility	Electronic transmission management		
Fonction	Measure the temperature of the hydraulic circuit		

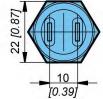
Features	
Threshold of temperature	90°C ± 3°C [194°F± 37.4°F]
Hysteresis	< 20°C [<68°F]
Type of contact	switch opens with increasing temperature
Max. voltage	30 Volt
Max. current	Ohmic load 16A and inductive load 10A
Using temperature range	-40 to +130°C [-40 to +266°F]
Max. pressure	100 bar <i>[1 450 PSI]</i>
Ingress protection	IP67
Housing material	CuZn38Pb2

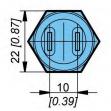
Electronic control units











Hydraulic connection

Connection	O'ring	p N.m [lb.ft] ± 10 %
M14 x 1,5	-	20 [14.7]
9/16" UNF	-	

Electrical connection

Terminal blades 6,3 x 0,8 [0.25 x 0.03]



When wiring, check that the wire can neither be cut off, nor torn off when the machine is working or moving.





SMARTDRIVE™ CT MAIN CONNECTOR



Characteristics			SD-CT-200	SD-T-300
Commercial name			KIT-CONNECT-SD-CT-200	KIT-CONNECT-SD-CT-300
Poclain Hydraulics part number			A48149L	A48140B
Function		SmartDrive	e™ CT_controller's Counter-par	t connectors
Compatibility		Electronic transmis	ssion management with SmartD	rive™ CT controller
Component		AMP reference		
Connector A		1473416-1	x1	x1
Connector B		4-1437290-1	x1	x1
Connector C		3-1437290-7	0	x1
Sockets	ملتنش	3-1447221-3	x65	x90
Stoppers		4-1437284-3	x50	x75
Wire section		0,75 to 1,25 mm² [0.00116 to 0.00194 in²]		
Insulation diameter		for wire section 0,75 to 1,25 mm² [0.00116 to 0.00194 in²] : 1,6 to 2,4 mm [0.063 to 0.094 in]		
Operating temperature	-40°C to 85°C [-40°F to 185°F]			
Ingress Protection		IP67		

Mounting tools for the connector

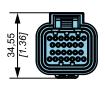
Description		AMP reference
Crimpers	M	1454509-1

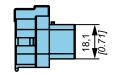
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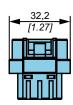


Overall dimensions

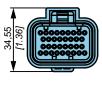
Connector A: 1473416-1

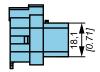






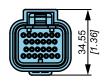
Connector B: 4-1437290-1

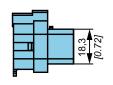






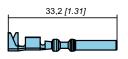
Connector C: 3-1437290-7







Socket:3-1447221-3



Stopper: 4-1437284-3







SMARTDRIVE™ CT COMMUNICATION CONNECTOR





This connector has to be present on the machine to permit SmartDrive™ CT maintenance.

Commercial name	KIT-CONNECT-COM-M-SD-CT
Part number Poclain Hydraulics	A48693C
Function	Diagnosis and download the software embedded in the SmartDrive ™ CT controller via CAN bus
Compatibility	Electronic transmission management with SmartDrive™ CT controller
Manufacturer	DEUTSCH

Features			DEUTSCH reference
Components		1x Receptacle	HD10-9-1939PE
-	٩	1x Closing cap	HDC9-JDL082397
-		1x Gasket	HD10-9-GKT
-	_	7x Pin	0460-202-1631 (AWG16-20)
-		4x Stopper	114-017
D	F	or the connector: -55°C to 125	°C [-67°F to 257°F]

Operating temperature	For the connector: -55°C to 125°C [-67°F to 257°F]	
	For the gasket: -57°C to 107°C [-70.6°F to 224.6°F]	
Ingress Protection	IP67	
Wire section	0,5 to 1.0 mm ² [0.019 to 0.039 in ²] (16, 18, 20 AWG)	
Insulation diameter	1.35 to 3.05 mm [0.053 to 0.12 in]	

Mounting tools for the connector

Description		AMP reference
Crimpers	N	HDT-48-00
Extractor		0411-310-1605

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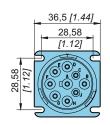
Connector mounting

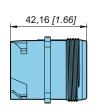
Strip the wires to a length of 5 mm [0.19 in]. Crimp the wires onto the pins as shown in the table below.

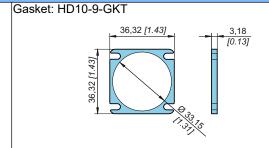
N° pin connector on SmartDrive™ CT controller		Function	N° pin male communication connector
		Ground	A
		VBAT_P	В
CAN 2 vehicle	Connector B pin 10	CAN2 H	С
	Connector B pin 18	CAN2 L	D
-	-	-	E
-	-	-	F
-	-	-	G
CAN 1 diagnosis	Connector B pin 1	CAN 1 H	Н
	Connector B pin 2	CAN 1 L	J

Overall dimensions

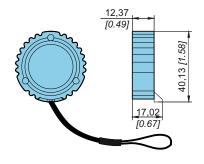
Receptacle: HD10-9-1939PE

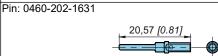




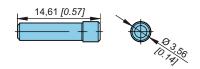


Cap: HDC9-JDL082397

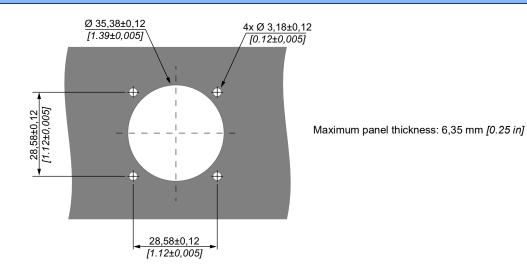




Stopper: 114017



Panel cutout



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CONNECTOR KIT 120Ω

Commercial name	KIT-PLUG-120-DTM-2S	
Part number	A52539H	
Function	120Ω termination resistor for CAN bus	
Compatibility	Electronic transmission management with SmartDrive™ CT controller	
Manufacturer	DEUTSCH	

Features			DEUTSCH reference
Components		1x Receptacle	DTM04-2P-P007
_	00	2x Connector	DMT06-2S
_		1x Wedgelock	WM-2S
_	400	1x Wedgelock	WM-2SB
		1x Connector with integrated resistance	DMT06-2S-EP10
		7x Sockets	0462-201-2031
Operating temperature		-55°C to 125°C [-67°F to 25	
Wire section	0,2 to 0,5 mm ² [0.008 to 0.019 in ²]		
Insulation diameter	1,35 to 3,05 mm [0.053 to 0.12 in]		
Pin material	Gold plated		
Contact size	20		

Mounting tools for the connector

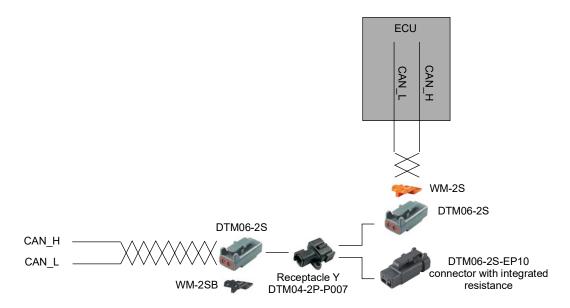
Description		AMP reference
Crimpers	1	HDT-48-00

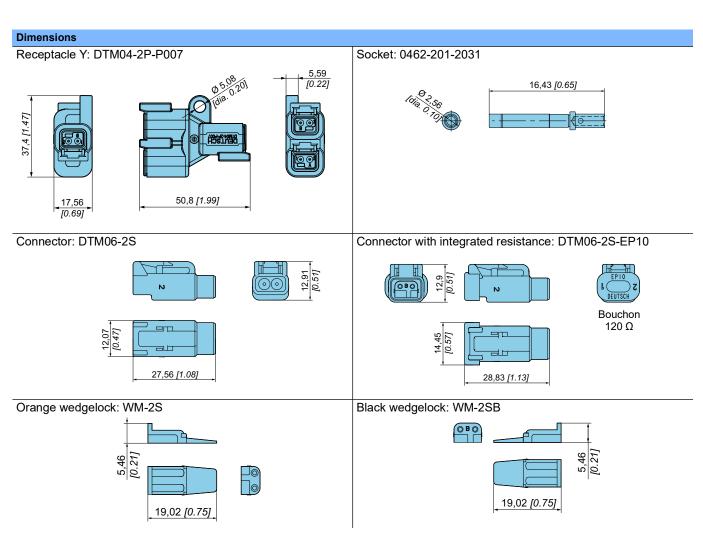
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Connector mounting

Strip the wires to a length of 5 mm [0.19 in]. Crimp the wires onto the sockets as shown in the diagram below.







3-PIN WEATHER PACK CONNECTOR



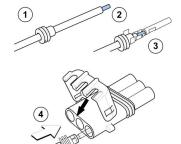
Commercial name	KIT CONNECTEUR CAPT CDE SA
Part number	007142212Z
Compatibility	Floor pedal. Suspended pedal. Swash plate sensor.

Features		
Manufacturer		DELPHI reference
	1x 3-way male connector	1201 5793
Components	3x Female contact	1208 9188
	3x Seal	1201 5323
Wire section	0.5 to 0.8 mm ²	
Insulation diameter	2 to 2.9 mm	
Operating temperature	-40°C to +125°C [-40°F to +257°F]	
Ingress protection	IP 67	

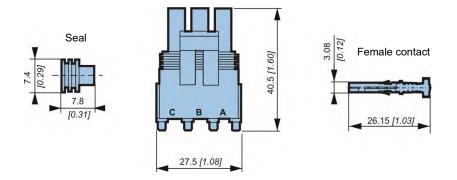
Connector mounting

Locking device position

- 1. Fit a seal on each wire.
- 2. Strip 5 mm [0.19 in] off the wires.
- 3. Crimp the terminals with the 1201 4254 Packard Electric pliers, pinching the seal with the lug.
- Plug the terminal into its compartment. If a terminal is wrongly inserted, use extraction tool Ref 1201 4012 to remove it.
 Fold down the connector latch.



Layout



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3-PIN METRI PACK CONNECTOR

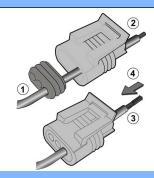


Commercial name	KIT CONNECTEUR CAPT VIRAGE
Part number	007142222K
Compatibility	Floor pedal.
Manufacturer	DEPLHI

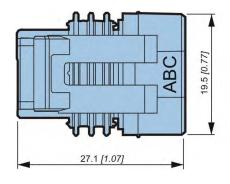
Features		DELPHI reference
Components	1x 3-way terminal connector	1216 2182
Components	4x Terminal	1212 4076
Wire section	0.35 to 0.60 mm ²	
Insulation diameter	1.30 to 2.20 mm	
Operating temperature	-40°C to +125°C [-40°F to +257°F]	
Ingress protection	IP67	

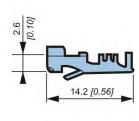
Connector mounting

- 1. Pass the wires through the connector.
- 2. Strip 5 mm from the wires.
- 3. Crimp the terminals with special tool 1203 9500.
- 4. Pull the wires towards the connector to fit the terminals into their housing.



Layout







6-PIN METRI PACK CONNECTOR

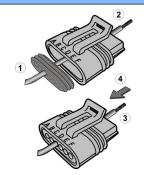


Commercial name	KIT-CONNECT-6-PIN-MP
Part number	A38140G
Compatibility	Joystick with Z-gate
Manufacturer	DEPLHI

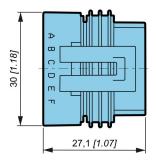
Features		DEPLHI reference
	1x Connector	1206 6317
Components	7x Pin	1210 3881
	3x Stopper	1206 5266
Wire section	0,8 to 1,0 mm ²	
Insulation diameter	2,03 to 2.40 mm	
Operating temperature	-40°C to +125°C [-40°F to +257°F]	
Ingress protection	IP67	

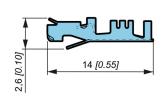
Connector mounting

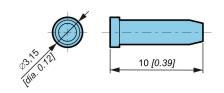
- Pass the wires through the connector.
- 2. Strip 5 mm from the wires.
- 3. Crimp the terminals with special tool 1203 9500.
- 4. Pull the wires towards the connector to fit the terminals into their housing.



Layout









EN 175301 - 803 STYLE A CONNECTOR



Commercial name	KIT CONNECT CDE SA		
Part number	007142211X		
Compatibility	Proportional control electro-valve. Electro-valve solenoid control.	·	
Manufacturer	Hirschmann		

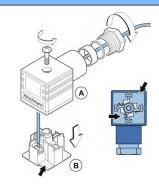
Features		Hirschmann reference
Standard	EN 175301 - 803 style A (DIN 43650)	
Components	2x Connector	GDM 2011
	2x Screw	
	2x Gasket	GDM-3-17
Max. currrent	16 A	
Max. voltage	250 V (AV)	
Wire section	max. 1.5 mm ²	
Cable diameter	6 mm [0.24 in] to 9 mm [0.35 in]	
Operating temperature	-40°C to +125°C [-40°F to +257°F]	
Ingress Protection	IP65	

Connector mounting

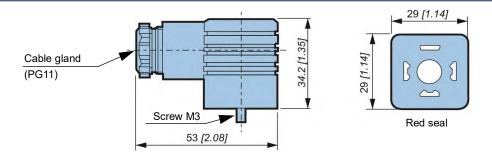
- 1. Unscrew the packing gland and the screw.
- 2. Open the connector with a flat-headed screwdriver inserted in part B of the slot.

Strip the wire over a length of 5 mm [0.19 in]. Pass the wire through the gland, then through the cover A. Plug the wire into B. Wire No.3 has to be earthed.

3. Re-assemble B and A: The "3" mark has to be nearest the gland. Refit the packing gland and the screw.



Layout





EN 175301 - 803 STYLE A CONNECTOR WITH DIODE



Commercial name	CONNECTOR-GDML-DIODE	
Part number	A37605A	
Compatibility	On/Off control electro-valve.	
Manufacturer	Hirschmann	

Features		Hirschmann reference
Standard	EN 175301 - 803 style A (DIN 43650)	
Components	1x Connector	GDML 2011 LED 24 HH YE
	1x Screw M3x35	
	1x Gasket	GDM 3-7
Max. current	8 A	
Max. voltage	24 V DC (use 12 V and 24 V DC)	
Wire section	max. 1.5 mm ²	
Cable diameter	4.5 to 11 mm	
Operating temperature	-40°C to +90°C [-40°F to +194°F]	
Ingress Protection	IP65	

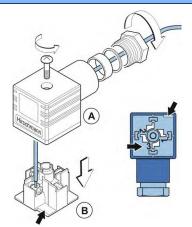
Connector mounting

- 1. Unscrew the packing gland and the screw.
- 2. Open the connector with a flat-headed screwdriver inserted in part B of the slot.

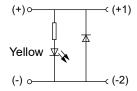
Strip the wire over a length of 5 mm [0.19 in].

Pass the wire through the gland, then through the cover A. Plug the wire into B. Wire No.3 has to be earthed.

Re-assemble B and A: The "3" mark has to be nearest the gland. Refit the packing gland and the screw.

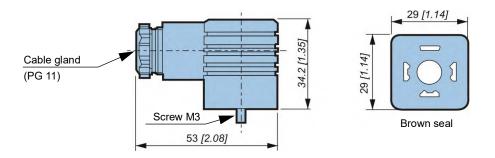


You should respect the polarity as shown in the diagram below.



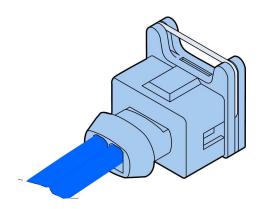


Layout



Electronic control units

2-PIN AMP TIMER JUNIOR CONNECTOR

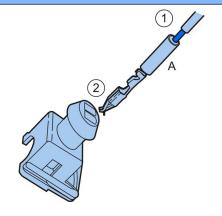


Commercial name	VMA CONNECTOR VALVE KIT
Part number	007142206S
Compatibility	In-line valve. Flanged valve.
Manufacturer	AMP

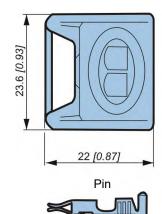
Features		AMP reference
Componente	3x Contact	927 846 - 2
Components	1x Body connector	827 551 - 3
Wire section	0.5 to 1 mm ²	
Insulation diameter	1.4 to 2.1 mm	

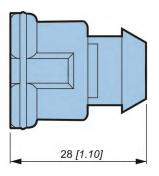
Connector mounting

- 1. Strip 5 mm [0.19 in] of insulation off the cables. Crimp the lugs using an AMP CERTI-LOCK 169400 tool. Protect the connection with heat-shrink tubing (A), or Rislon fixed plastic tubing.
- 2. Refer to your general wiring diagram, inserting each lug into its housing until it clicks into place.



Layout







2-PIN DEUTSCH DT CONNECTOR



Commercial name	KIT-CONNECT-2-PIN-DEUTSCH
Part number	A42310P
Compatibility	PM and PH1 pump
Manufacturer	DEUTSCH

Features		DEUTSCH reference
Components	1x Connector	DT06-2S
	1x Wedgelock	W2S-P012
	3x Socket contact	0462-201-16141
Wire section	0.5 to 0.1 mm ²	
Cable diameter	2.23 to 3.68 mm	
Operating temperature	-55°C to +125°C <i>[-40°F to</i> +257° <i>F]</i>	
Ingress Protection	IP67	

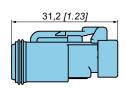
Mounting tool

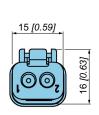
Crimp tool: HDT-48-00

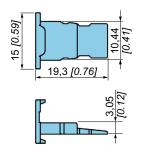
Layout

Connector Wedgelock



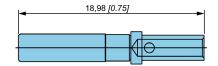








Socket contact







3-PIN DEUTSCH DTM CONNECTOR



Commercial name	KIT-CONNECT-DTM-3S-NW8.5
Part number	B02468G
Compatibility	Position sensor
Manufacturer	DEUTSCH

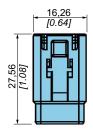
Features		DEUTSCH reference
Components	1x Connector	DTM 06-3S
	1x Backshell 180° NW8.5	1028-005-0305
	1x Wedgelock	WM-3S
	4x Contact	0462-201-20141
Wire section	0.2 to 0.5 mm ²	
Cable diameter	1.35 to 3.05 mm	
Operating temperature	-55°C to +125°C [-40°F to +257°F]	
Ingress Protection	IP6K9K	

Mounting tool

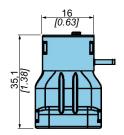
Crimp tool: HDT-48-00

Layout

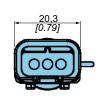
3 pins DTM connector

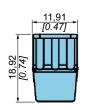






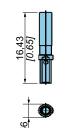
Backshell





Wedgelock





Socket contact





4-PIN DEUTSCH DT CONNECTOR



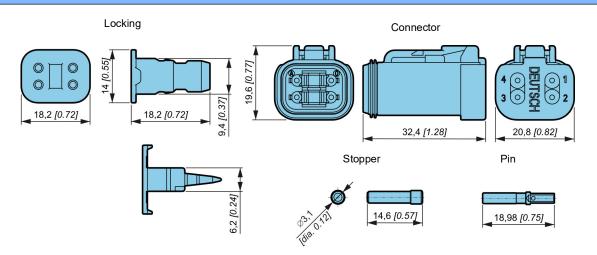
Commercial name	KIT-CONNECT-4-PIN-DEUTSCH
Part number	A39961L
Compatibility	Joystick with Z-gate
Manufacturer	DEUTSCH

Features		DEUTSCH reference
Components	1x Connector	DT06-4S-EP06
	5x Pin	0462-201-16141
	1x Stopper	114017
	1x Locking	W4S-P012
Wire section	0,5 to 1,0 mm ²	
Insulation diameter	2,23 to 3.68 mm	
Operating temperature	-55°C to +125°C [-67°F to +257°F]	
Ingress protection	IP67	

Mounting tools

Crimpers HDT-48-00

Layout



4-PIN DIN72585 IP6K9K CONNECTOR



Commercial name	KIT-CONNECT-4-PIN-DIN72585
Part number	В02394В
Compatibility	Pressure sensor, Temperature sensor
Manufacturer	TYCO

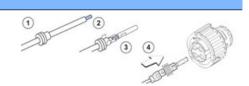
Features		TYCO reference
	1x DIN connector socket 4 pins	1-967325-1
	1x Cap 90° NW8.5	965577-1
Components	4x Socket contacts	962981-1
	4x Single wire seals	828920-1
	2x Cavity plugs	828922-1
Wire section	0.5 to 1mm²	
Insulation diameter	1.2 to 2.1 mm [0.05 to 0.11 in]	
Operating temperature	-40°C to +130°C [-40°F to 257°F]	
Ingress protection	IP6K9K	

Mounting tool

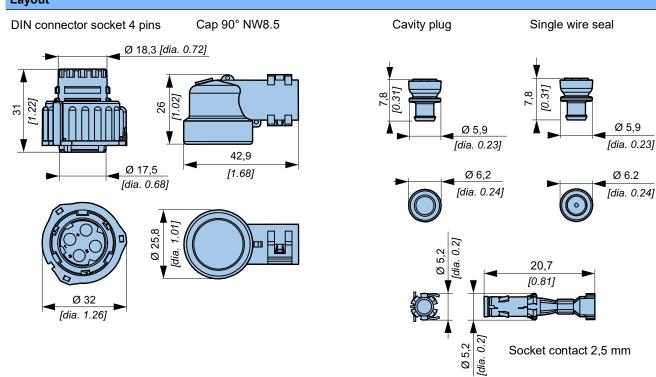
Crimp tool :AMP 734289-1

Connector mounting

- 1. Fit a seal on each wire
- 2. Strip 5 mm [0.19 in] off the wires.3. Crimp the socket contacts with the 734289-1 hand tool pliers in position 2 for wire range 0.5 to 1mm², pinching the seal with the lug. 4. Plug the terminal into its compartment. If a terminal is wrongly
- inserted, use extraction tool AMP Ref. 1-1579007-8 to remove it.



Layout





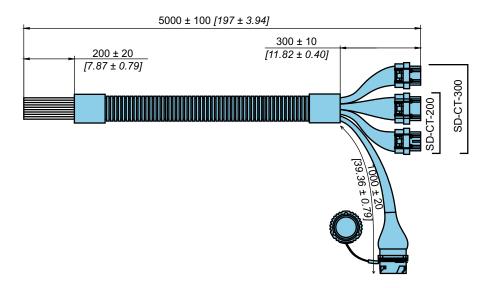
SMARTDRIVE™ CT CABLE

Commercial name	CABLE-SD-CT-200-60-5000	CABLE-SD-CT-300-86-5000	
Part number	A48878D	A48877C	
Function		Connect SmartDrive™ CT to the machine wiring and have a male communication connector.	
Compatibility	Transmission manage	Transmission management with SmartDrive™ CT	
Features			
Length of cable	5m	5m	
Operating temperature	- 40°C to 85°C [-40 °F to 185°F]		
Ingress protection	IP67 accor	IP67 according to IEC 60529	
Number of wires	60	86	
Number of stoppers	50 (Tyco ref: 4-1437284-3)	75 (Tyco ref: 4-1437284-3)	
Wire section	0,75 mm² [0.029 in²] for signals 1 mm² [0.039 in²] for VBAT_P and power outputs 1,25 mm² [0.049 in²] for VBAT_D1, VBAT_D2, VBAT_D3 and -VBAT		
Insulation diameter	1,6 to 2,2 mm [0.063 to 0.086 in]		

Each wire is numbered with locating pin and connector.
For the CAN bus, the identification is performed by different colour for each pin. (see table - CAN Wire colour)

CAN Wire colour		
Function	Colour	
CAN1_High	White	
CAN1_Low	Green	
CAN2_High	White	
CAN2_Low	Red	
CAN3_High	White	
CAN3_Low	Blue	

Dimensions





Unused wires should be individually insulated because of possible voltage.

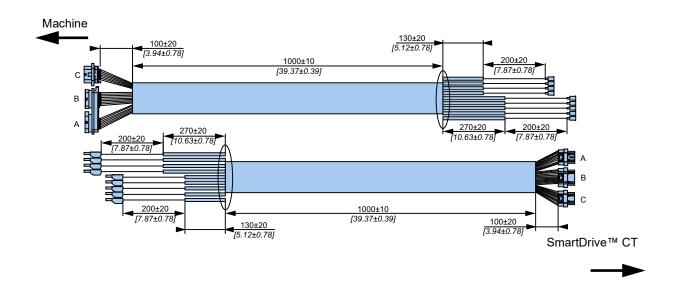


In case some wires are removed, stoppers must be inserted in connector cavity to ensure the sealing.

SMARTDRIVE™ CT TEST CABLE

Commercial name	CABLE-TEST-BOX-86-WAY-CT300	
Part number	B04164A	
Function	Check the wiring by isolation each wire between the machine and the Electronic Unit (workshop use)	
Compatibility	Transmissions controlled by a unit in the SmartDrive™ CT range	
Features		
Lenght of cable	3000 mm	
Maximum volatge	32 VDC	
Operating Temperature	-40 °C to 80 °C [-40 °F to 176 °F]	
Material	PVC for wires, Polyester for Braided sheath	
Number of wires	86	
Section of wires	1 mm²	

Layout





Electrical wiring

The wires of the cable are numbered and have different colors

Connector A SD-CT300		
Number PIN	Number wire	Color wire
1	A-1	Green
2	A-2	Green
3	A-3	Green
4	A-4	Green
5	A-5	Green
6	A-6	Green
7	A-7	Green
8	A-8	Green
9	A-9	Green
10	A-10	Brown
11	A-11	Brown
12	A-12	Brown
13	A-13	Brown
14	A-14	Brown
15	A-15	Brown
16	A-16	Brown
17	A-17	Brown
18	A-18	Brown
19	A-19	Brown
20	A-20	Red
21	A-21	Red
22	A-22	Red
23	A-23	Red
24	A-24	Red
25	A-25	Red
26	A-26	Red

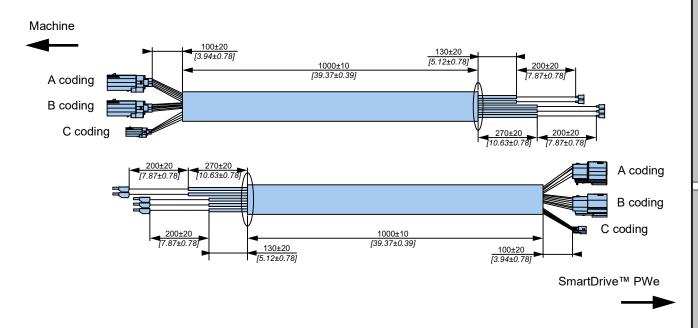
	Connector A SD-CT300	
Number PIN	Number wire	Color wire
61	C-1	Orange
62	C-2	Orange
63	C-3	Orange
64	C-4	Orange
65	C-5	Orange
66	C-6	
		Orange
67	C-7	Orange
68	C-8	Orange
69	C-9	Orange
70	C-10	White
71	C-11	White
72	C-12	White
73	C-13	White
74	C-14	White
75	C-15	White
76	C-16	White
77	C-17	White
78	C-18	White
79	C-19	White
80	C-20	Grey
81	C-21	Grey
82	C-22	Grey
83	C-23	Grey
84	C-24	Grey
85	C-25	Grey
86	C-26	Grey

Connector B SD-CT300				
Number PIN	Number wire	Color wire		
27	B-1	Red		
28	B-2	Red		
29	B-3	Red		
30	B-4	Yellow		
31	B-5	Yellow		
32	B-6	Yellow		
33	B-7	Yellow		
34	B-8	Yellow		
35	B-9	Yellow		
36	B-10	Yellow		
37	B-11	Yellow		
38	B-12	Yellow		
39	B-13	Yellow		
40	B-14	Black		
41	B-15	Black		
42	B-16	Black		
43	B-17	Black		
44	B-18	Black		
45	B-19	Black		
46	B-20	Black		
47	B-21	Black		
48	B-22	Black		
49	B-23	Black		
50	B-24	Blue		
51	B-25	Blue		
52	B-26	Blue		
53	B-27	Blue		
54	B-28	Blue		
55	B-29	Blue		
56	B-30	Blue		
57	B-31	Blue		
58	B-32	Blue		
59	B-33	Blue		
60	B-34	Orange		

SMARTDRIVE™ PWE TEST CABLE

Commercial name	CABLE-TEST-BOX-42-WAY-PWE	
Part number	B04166C	
Function	Check the wiring by isolation each wire between the machine and the Electronic Unit (workshop use)	
Compatibility	Transmissions controlled by a unit in the SmartDrive™ PWE	
Features		
Lenght of cable	3000 mm	
Maximum voltage	32 VDC	
Operating Temperature	-40 °C to 80 °C [-40 °F to 176 °F]	
Material	PVC for wires, Polyester for Braided sheath	
Number of wires	42	
Section of wires	1 mm²	

Layout





Electrical wiring

The wires of the cable are numbered and have different colors

Connector Moley A codding		
Connector Molex A codding		
Number wire	Number pin	Color wire
A-1	1	Green
A-2	2	Green
A-3	3	Green
A-4	4	Green
A-5	5	Green
A-6	6	Green
A-7	7	Green
A-8	8	Green
A-9	9	Green
A-10	10	Brown
A-11	11	Brown
A-12	12	Brown
A-13	13	Brown
A-14	14	Brown
A-15	15	Brown
A-16	16	Brown
A-17	17	Brown
A-18	18	Brown
A-19	19	Brown
A-20	20	Red

	Connector Molex B cod	
Number PIN	Number wire	Color wire
B-1	1	Red
B-2	2	Red
B-3	3	Red
B-4	4	Yellow
B-5	5	Yellow
B-6	6	Yellow
B-7	7	Yellow
B-8	8	Yellow
B-9	9	Yellow
B-10	10	Yellow
B-11	11	Yellow
B-12	12	Yellow
B-13	13	Yellow
B-14	14	Yellow
B-15	15	Yellow
B-16	16	Yellow
B-17	17	Yellow
B-18	18	Yellow
B-19	19	Yellow
B-20	20	Black

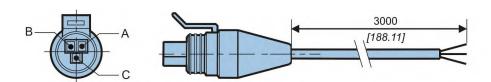
Connector Molex C coding			
Number PIN	Number wire	Color wire	
C-1	1	Black	
C-2	2	Black	

PRESSURE SENSORS CABLE



Commercial name	CABLE-PRESSURE-SENSOR-3M		
Part number	003141105U		
Features			
Lenght of cable	3 m		
Material	PVC		
Number of wires	3		
Sections of wires	0.5 mm ²		

Layout



Electrical wiring

Pin	Wire
A	Green
В	Brown
С.	White



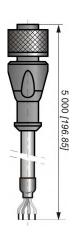
4-PIN M12 CABLE

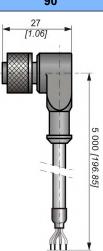


Commercial name	ELEC-CABLE-M12-180°-5000	ELEC-CABLE- M12-90°-5000		
Part number	A07468S	A04999J		
Compatibility	Speed sensor, digital sensor and tempera	Speed sensor, digital sensor and temperature sensor.		
Features				
Lenght of cable	5	5 m		
Material	Р	PUR		
Number of wires	4			
Sections of wires	0.34 mm ²			
Protection	IP68			

Layout 180° 90°







Connector Mounting

Securely hand tighten the cable's ring to sensor connector M12.

The M12 nut must be tightened with a tightening torque from 0.6 Nm (hand-tight) to 1.5 Nm (using a torque wrench). An excessive tightening can damage the M12 connector.

Electrical wiring			
	Pin	Wire	
	1	Brown	
	2	White	
	3	Blue	
	4	Black	

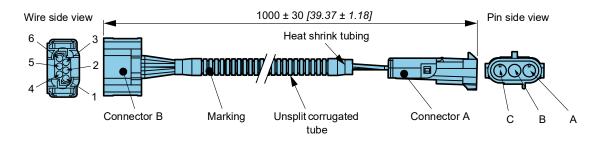


1 SIGNAL PEDAL CONNECTION CABLE



Commercial name	CABLE-AMP-65-WP-3P-1000		
Part number	A51444S		
Function	Connect to the pedal and use only 1 signal.		
Compatibility	Electronic transmission management with SmartDrive™.		
Features			
Lenght of cable	1 m		
Material	corrugated tube + wires		
Number of wires	3		
Sections of wires	AWG20		
Operating temperature	- 40°C + 85°C [- 40°F + 185°F]		
Corrugated tube material	PA		

Layout



Electrical wiring				
Connector A:	Packard Electric			
Connector:	12010717	Pin allocation of connectors		
Terminal:	12089040	Connector B	Connector A	Wire color
Wire seal:	12015899	1	С	red
		4	В	black
Connector B:	AMP	2	Α	white
Connector:	1-967616-1	3	-	-
Terminal:	0-962885-5	5	-	-
Wire seal:	0-0967067-1	6	-	-
Cavity plug:	967056-1			

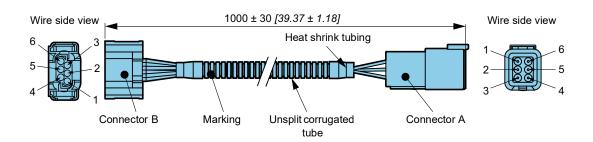


2 SIGNAL PEDAL CONNECTION CABLE



Commercial name	CABLE-AMP-65-DTM-6P-1000		
Part number	A51445T		
Function	Connect to the pedal and use 2 signals.		
Compatibility	Electronic transmission management with SmartDrive™.		
Features			
Lenght of cable	1 m		
Material	corrugated tube + wires		
Number of wires	6		
Sections of wires	AWG20		
Operating temperature	- 40°C + 85°C [- 40°F + 185°F]		
Corrugated tube material	PA		

Layout



Electrical wiring				
Connector A:	DEUTSCH			
Connector:	DTM04-6P	Pin allocation of connectors		
Terminal:	0460-202-2031	Connector B	Connector A	Wire color
Wedgelock:	WM-6P	2	1	white
		4	2	black
Connector B:	AMP	1	3	red
Connector:	1-967616-1	5	4	blue
Terminal:	0-962885-5	3	5	green
Wire seal:	0-0967067-1	6	6	orange
Cavity plug:	967056-1			

Electronic control units

Electronic components



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