



Technical Sales Information

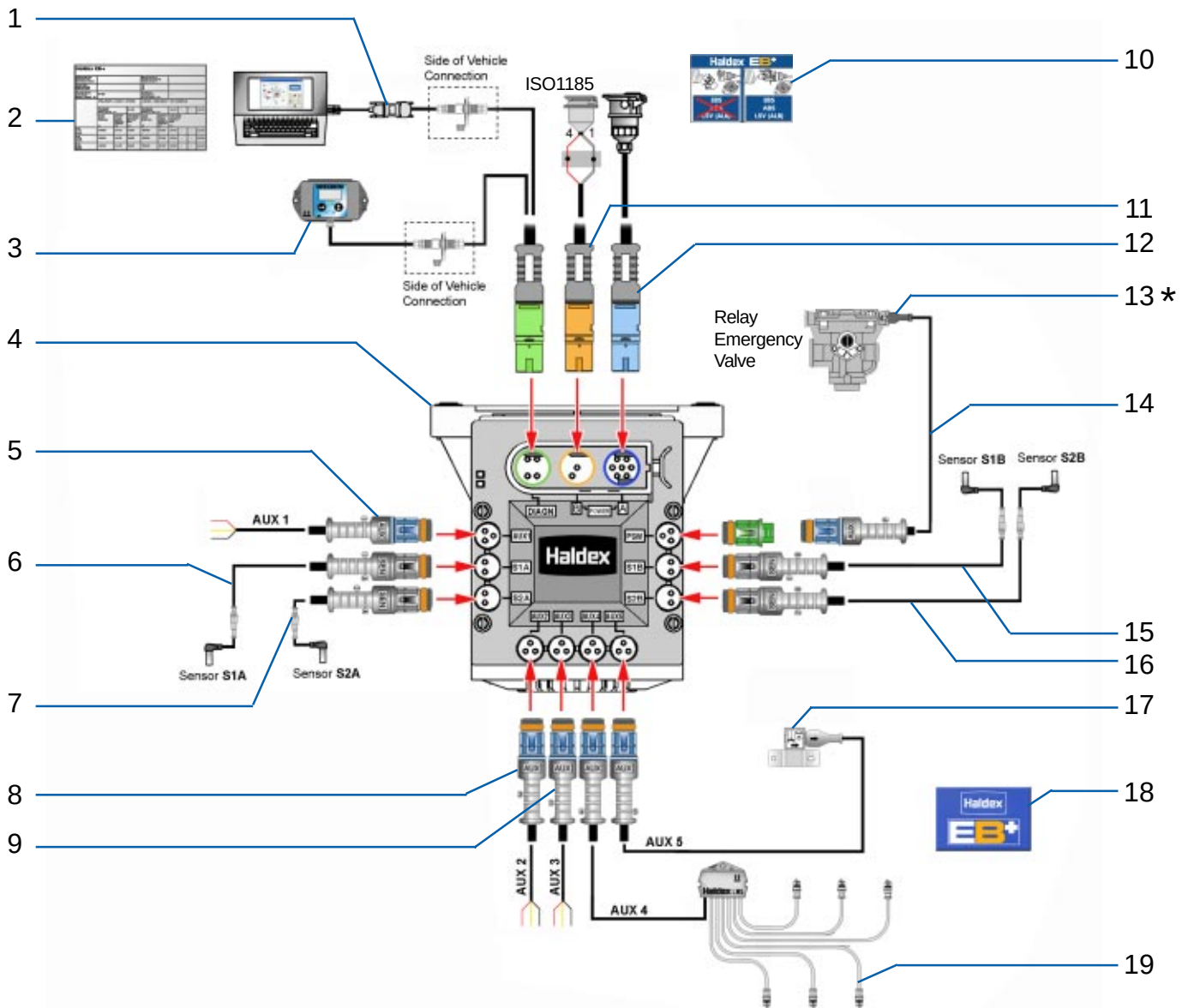


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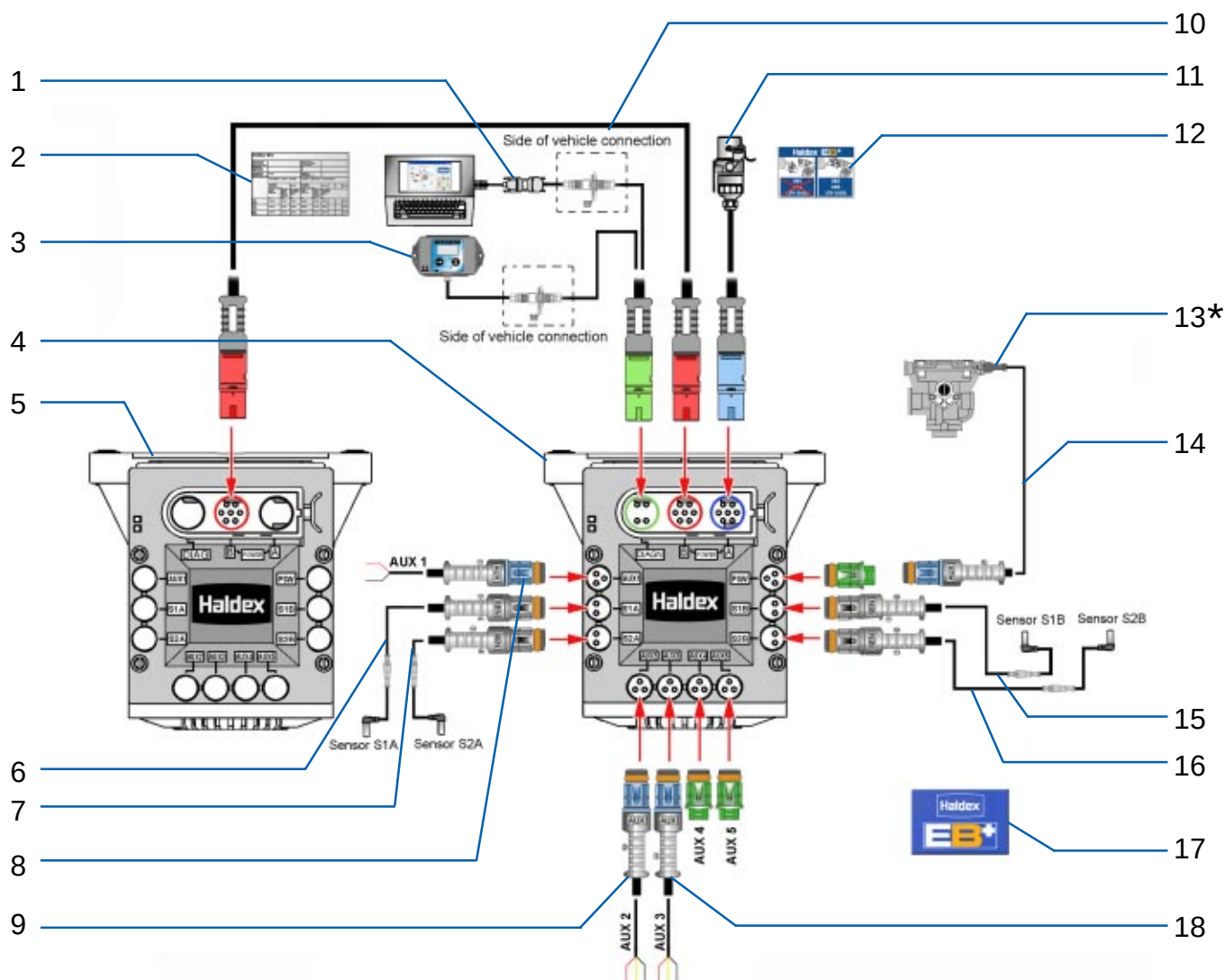
INCLUDING:
 Relay Emergency Valve
 Trailer Control Module
 COLAS®
 ILAS®-E
 Combine Park/Shunt Valve

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item	description	note	page
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Information

ABS + ELS + CAN unit with a dual modulator valve

Material: Plastic

Mass of assembly: 4.2Kg

Working pressure: Air 0 - 8.5 bar (9.5 bar max)

Operating voltage: 24Volts DC (19V Min. to 32V Max.)

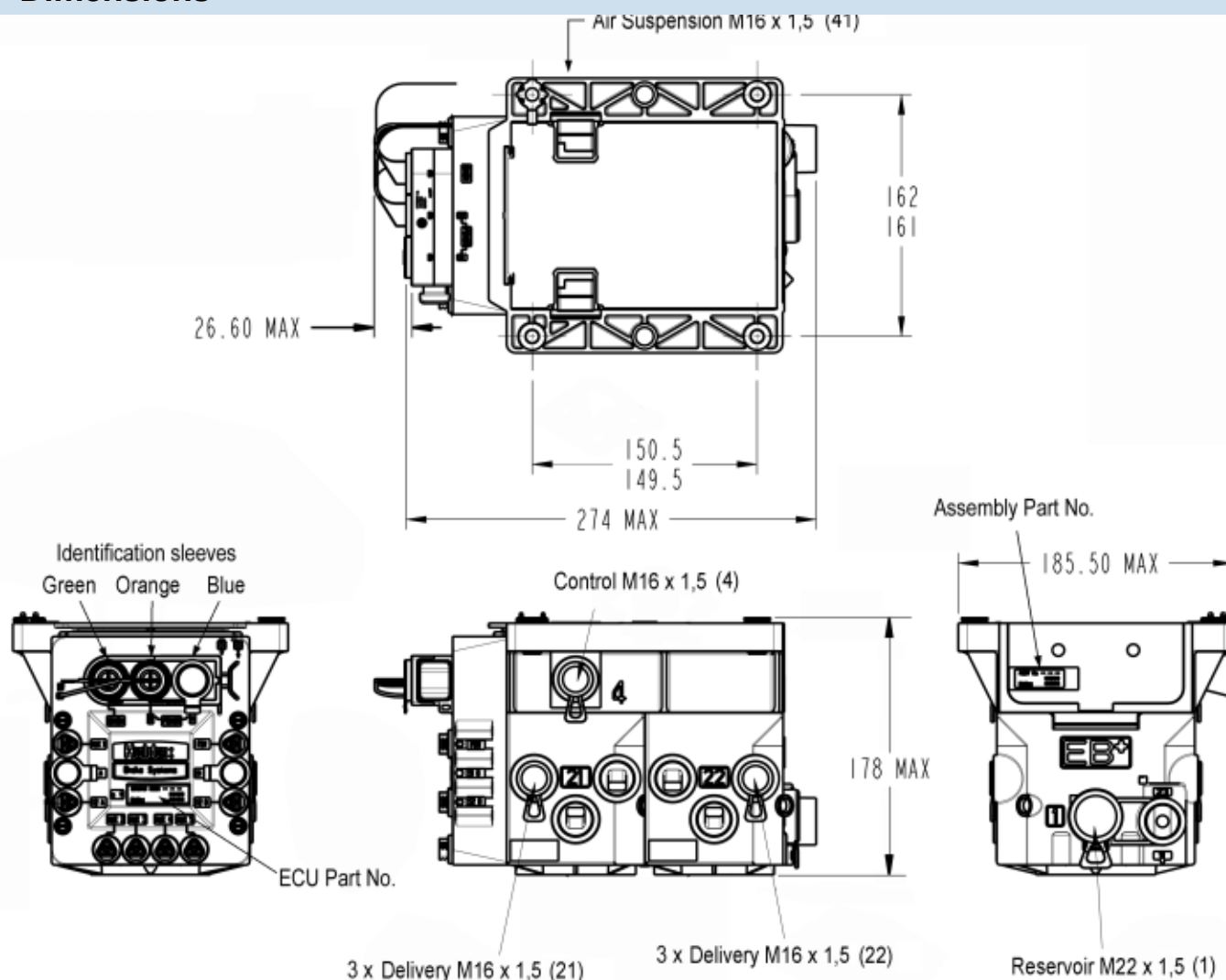
Current consumption: 2.2 Amps peak, 0.4 Amp nominal as brakes applied

Operating temperature: -40°C to +70°C

Installation attitude $\pm 15^\circ$

Recommended fixing screws M8 x 1.25-6H, T 15Nm

Dimensions



Options

system	OE part number	AM part number	note
4S/2M (5 AUX)	810 001 303	-	Replaces 810 001 301/302
4S/2M (5 AUX)	810 006 301	-	With Internal Accelerometer
2S/2M (3 AUX)	810 005 301	-	Replaces 810 012 001
2S/2M (3 AUX)	810 007 301	-	With Internal Accelerometer
2M ECU		950 800 201	
2M ECU		950 800 204	With Internal Accelerometer
2M Valve		950 800 302	

Information

ABS + ELS + CAN unit with a single modulator valve

Material: Plastic

Mass of assembly: 3.2Kg

Working pressure: Air 0 - 8.5 bar (9.5 bar max)

Operating voltage: 24Volts DC (19V Min. to 32V Max.)

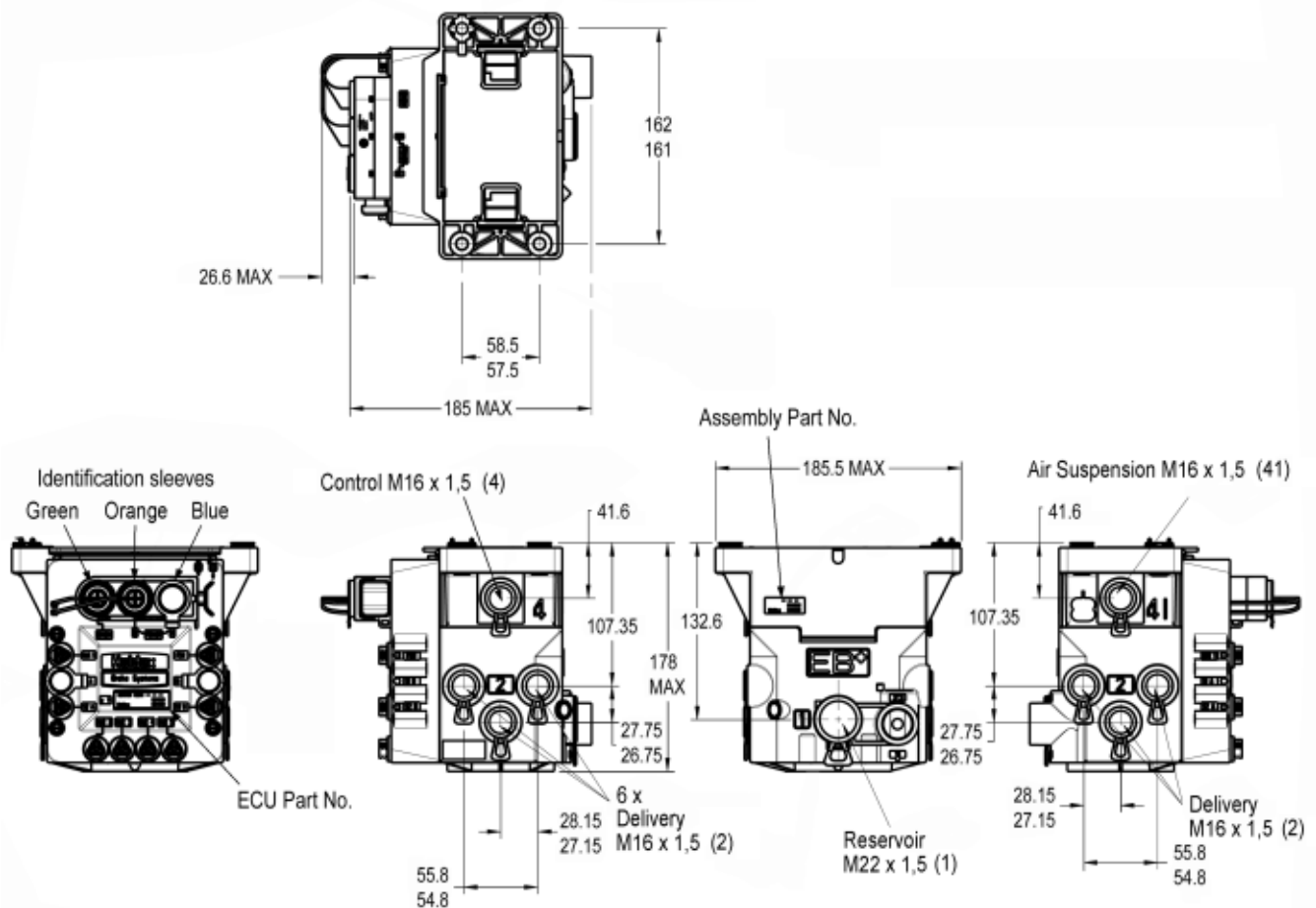
Current consumption: 1.6 Amps peak, 0.4 Amp nominal as brakes applied

Operating temperature: -40°C to +70°C

Installation attitude $\pm 15^\circ$

Recommended fixing screws M8 x 1.25-6H, T 15Nm

Dimensions



Options

system	OE part number	AM part number	note
2S/1M (5 AUX)	810 001 102	-	Replaces 810 001 101
2S/1M (3 AUX)	810 004 101	-	Replaces 810 013 101
2S/1M (1 AUX)	810 003 101	-	Replaces 810 013 001
1M ECU		950 800 201	
1M Valve		950 800 303	

Information

ABS + ELS + CAN unit with a dual modulator valve

Material: Plastic

Mass of assembly: 4.2Kg

Working pressure: Air 0 - 8.5 bar (9.5 bar max)

Operating voltage: 24Volts DC nominal (19V Min. to 32V Max.)

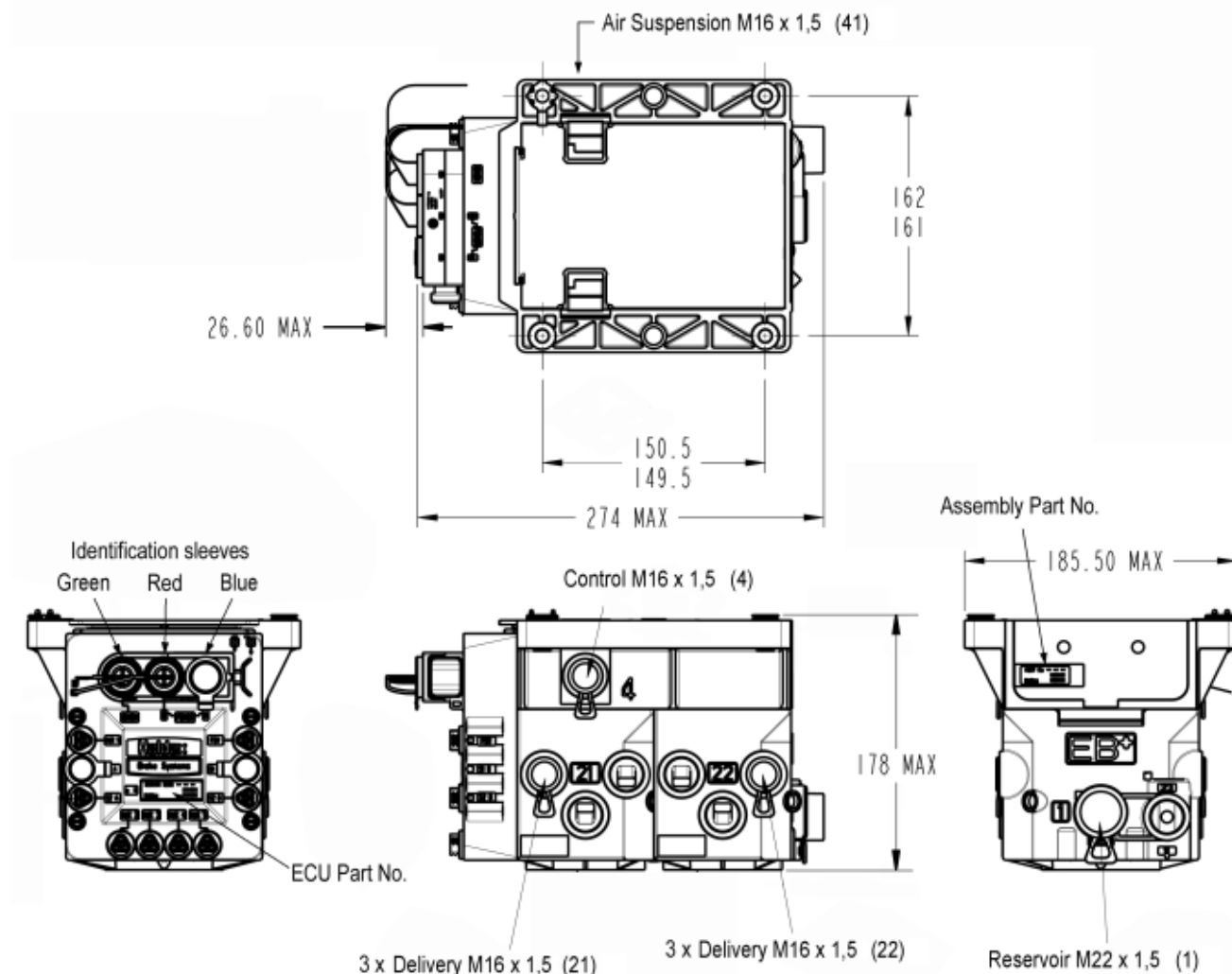
Current consumption: 3.8 Amps peak, 0.8 Amp nominal as brakes applied.

Operating temperature: -40°C to +70°C

Installation attitude $\pm 15^\circ$

Recommended fixing screws M8 x 1.25-6H, T 15Nm

Dimensions



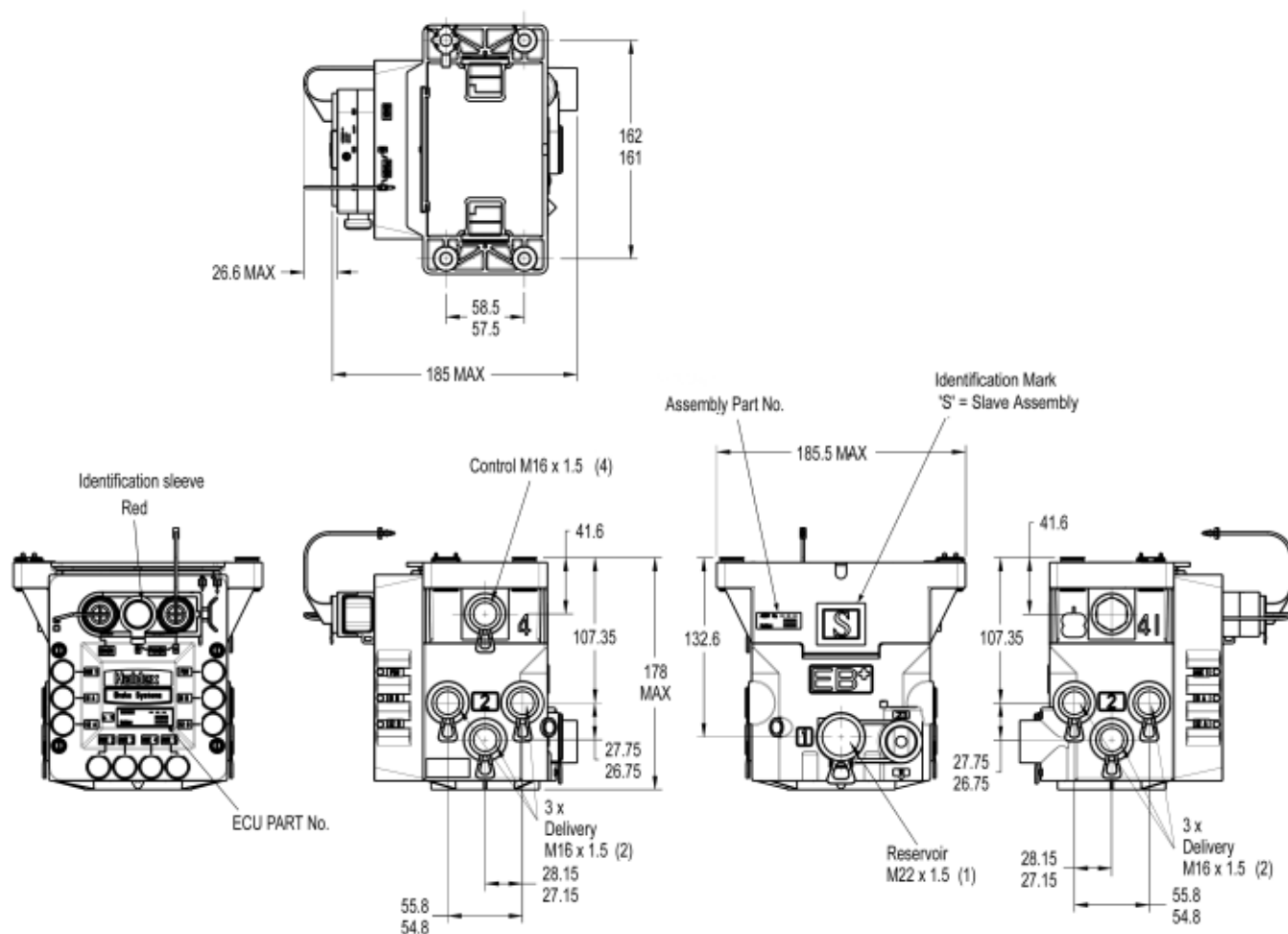
Options

system	OE part number	AM part number	note
Master Assy.	810 010 002	-	Replaces 810 010 001
Master ECU		950 800 202	Used on 3M systems
Master Valve (2M)		950 800 302	Used on 3M systems

Information

ABS + ELS + CAN unit with a single modulator valve
 Material: Plastic
 Mass of assembly: 3.2 Kg
 Working pressure: Air 0 - 8.5 bar (9.5 bar max)
 Operating voltage: 24Volts DC nominal (19V Min. to 32V Max.)
 Current consumption: Refer to 2M MASTER assembly
 Operating temperature: -40°C to +70°C
 Installation attitude $\pm 15^\circ$
 Recommended fixing screws M8 x 1.25-6H, T 15Nm

Dimensions



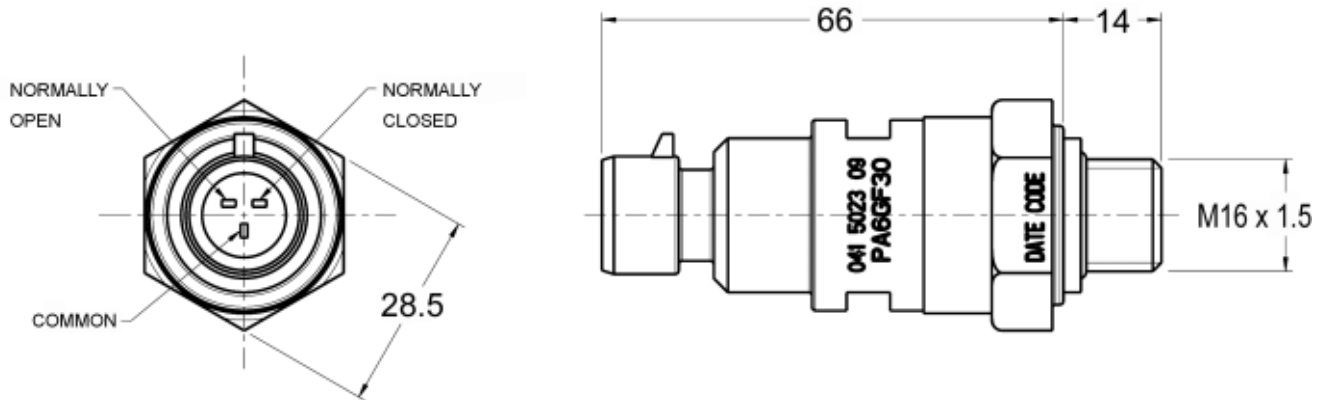
Options

system	OE part number	AM part number	note
Slave Assy.	810 011 001	-	
Slave ECU		950 800 203	Used on 3M systems
Slave Valve (1M)		950 800 304	Used on 3M systems

Information

Switches at 0.1 - 0.2 bar control line pressure
Mass of assembly: 112 grm
Working pressure: 10 bar max (air)
Operating temperature: -40°C to +70°C
Installation: Where REV fitted the switch is on input (tractor) side (port 4-2)
Tightening Torque: 32/35Nm

Dimensions



Options

OE part number	AM part number	note
041 5023 09	950 800 903	c/w 'O' ring and backing washer (see page 23 for cable)

Information

Information / Diagnostic / Test Unit

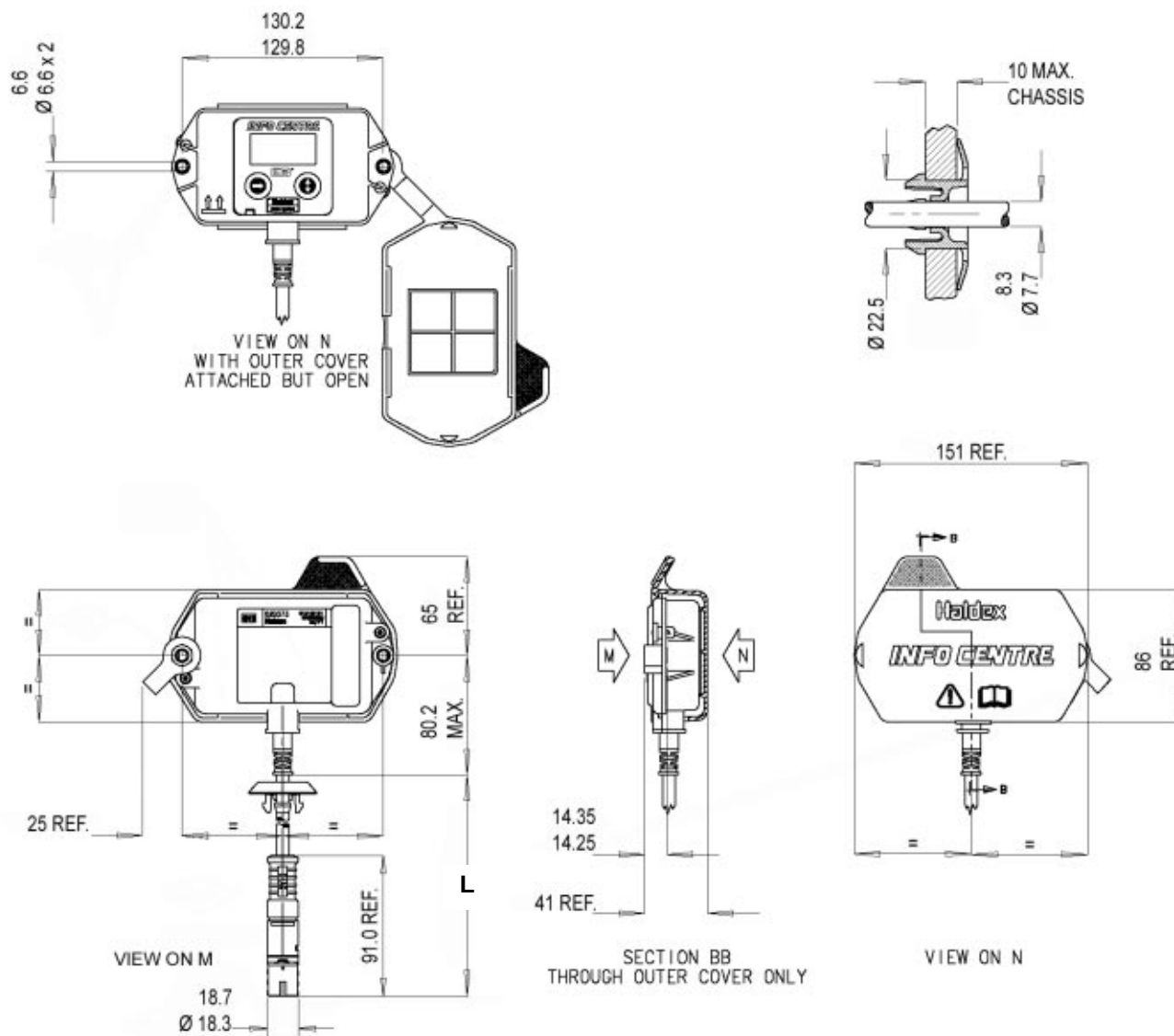
Operating voltage: 24Volts DC

Operating temperature: -40°C to +70°C

Installation: Outside chassis member connected directly to the ECU

Recommended fixing screws 2 x M6 x 1.00-6H, T 12/13Nm

Dimensions



Options

length L (m)	OE part number	AM part number	note
6.5	815 001 101	Use OE No.	
6.5	815 013 001	Use OE No.	ADR (w/o internal battery)
8	815 001 121	Use OE No.	
24	815 001 111	Use OE No.	

Information

Information / Diagnostic / Test Unit

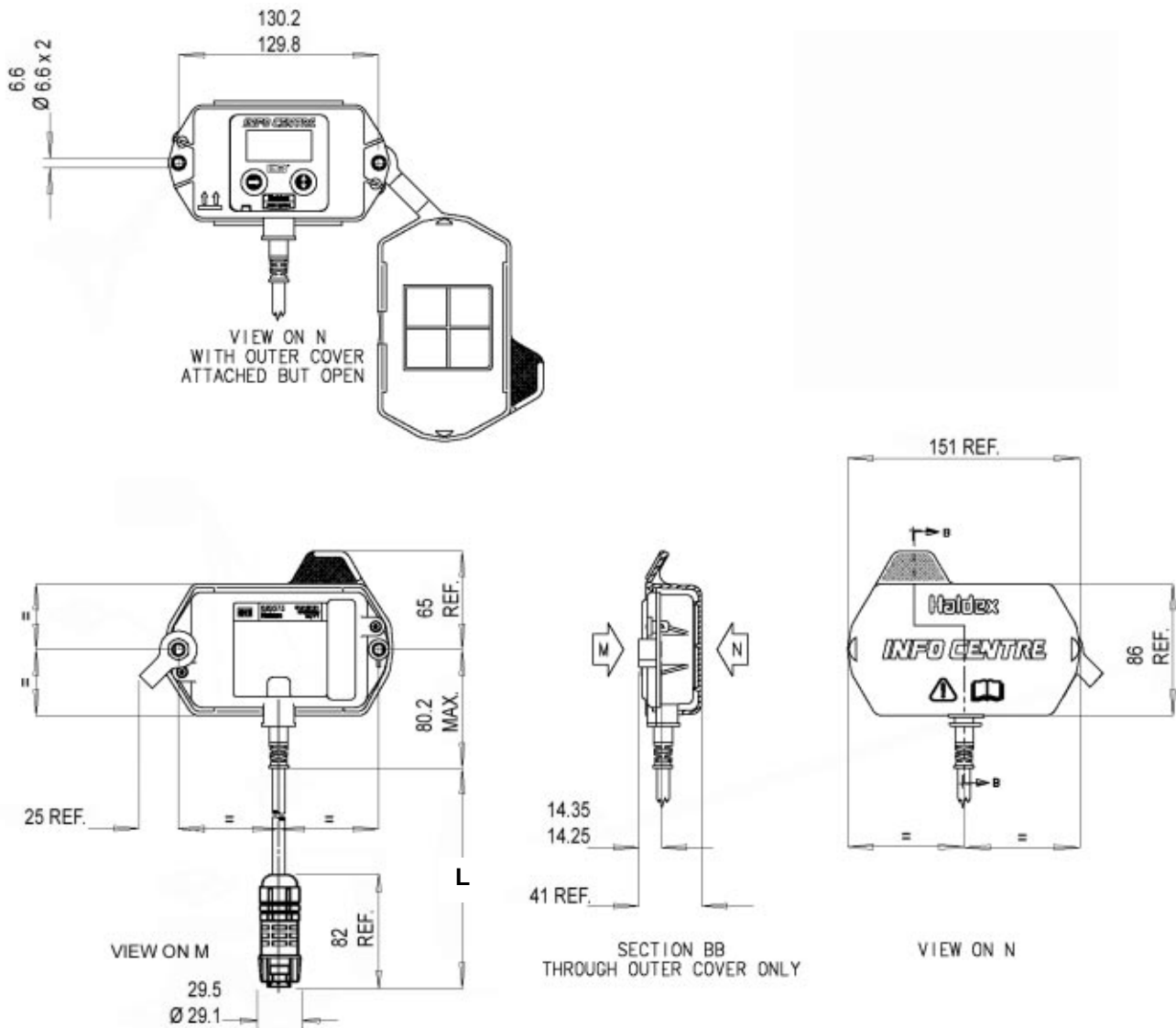
Operating voltage: 24Volts DC

Operating temperature: -40°C to +70°C

Installation: Outside chassis member connected to the side of vehicle connection from the ECU

Recommended fixing screws M6 x 1.00-6H, T 12/13Nm

Dimensions



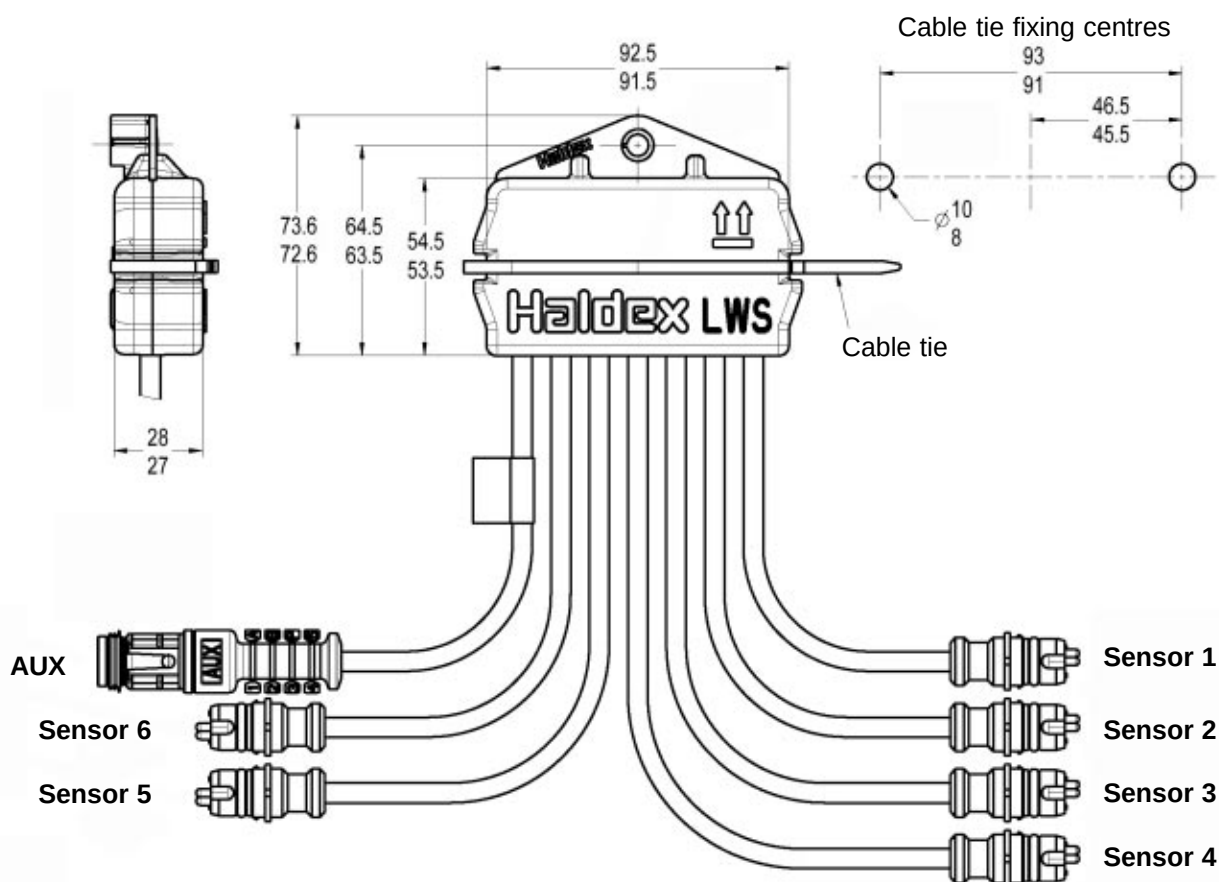
Options

length L (m)	OE part number	AM part number	note
0.5	815 010 001	Use OE No.	Side of vehicle (SOV) connection
0.5	815 014 001	Use OE No.	ADR (w/o int.battery) - SOV connection

Information

Brake pads information module indicates end of recommended pad life
 Conforms to IP67 (BS EN 60529) when mated with EB+ ECU and meets ADR classes 2 to 9 requirements
 Cable material: PUR
 ECU Connector: Blue
 Operating temperature: -40°C to +70°C
 Recommended fixing: Bolt M6 x 1.00-6H, T 12/13Nm or Cable Tie

Dimensions



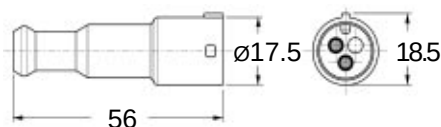
Connect into AUX 4 Only

Options

Cable Lengths (m)							OE part number	AM part number
Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Aux		
2.5	3.5	4.5	4.5	3.5	2.5	2.0	815 015 001	Use OE No.

Blanking Plug

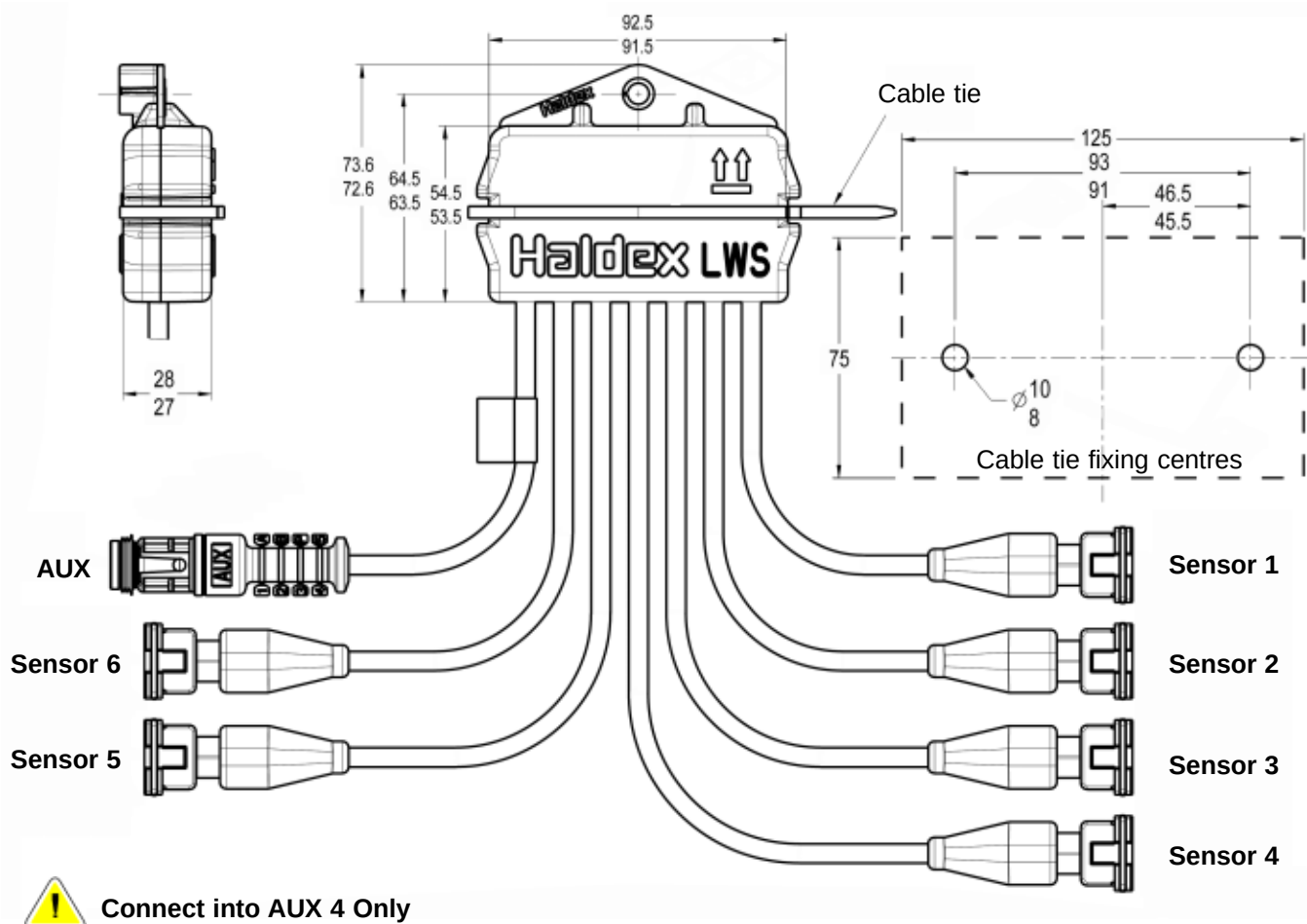
OE part number	AM part number
027 5260 09	Use OE No.



Information

Brake pads information module indicates end of recommended pad life
 Conforms to IP67 (BS EN 60529) when mated with EB+ ECU and meets ADR classes 2 to 9 requirements
 Cable material: PUR
 ECU Connector: Blue
 Operating temperature: -40°C to +70°C
 Recommended fixing: Bolt M6 x 1.00-6H, T 12/13Nm or Cable Tie

Dimensions



Options

Cable Lengths (m)							OE part number	AM part number
Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Aux		
2.5	3.5	4.5	4.5	3.5	2.5	2.0	815 016 001	Use OE No.

Information

Retrofit accelerometer for addition of Stability to an EB+ trailer

Conforms to IP67 (BS EN 60529) when mated with EB+ ECU

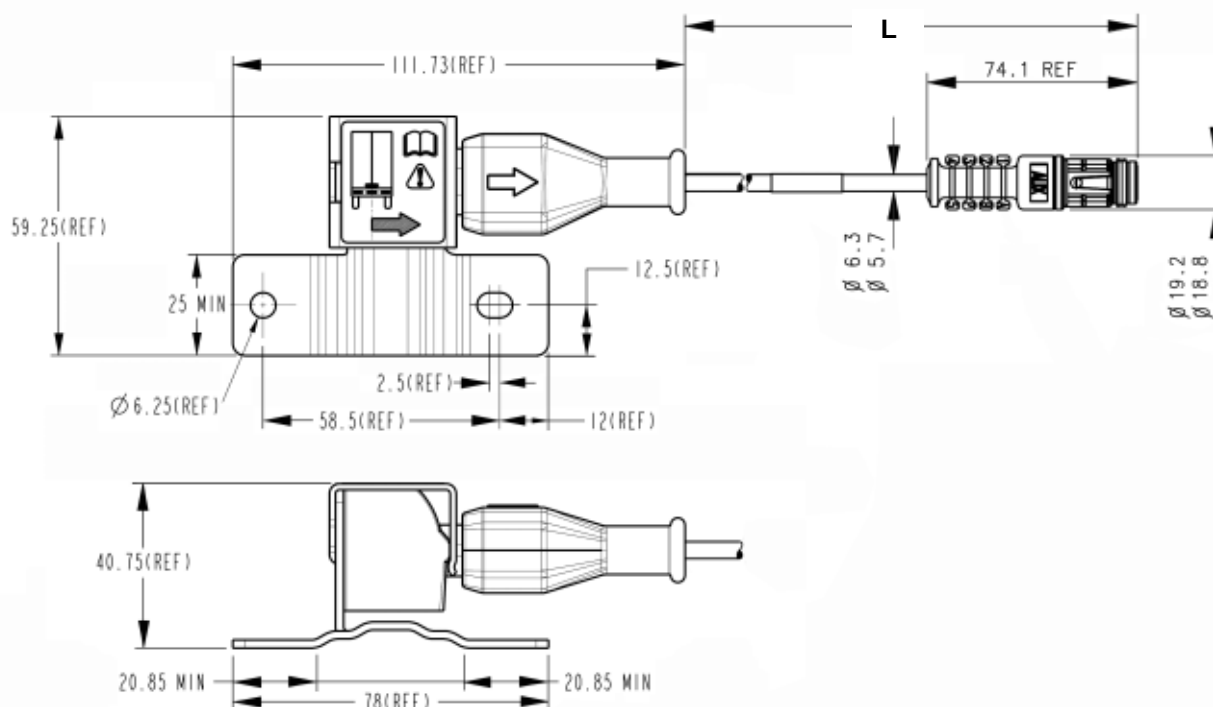
Cable material: PUR

ECU Connector: Blue

Operating temperature: -40°C to +70°C

Recommended fixing: Bolts 2 x M6 x 1.00-6H, T 12/13Nm to a mounting plate 3mm minimum thickness

Dimensions



Connect into AUX 5 Only
Used on 2M Semi Trailers Only

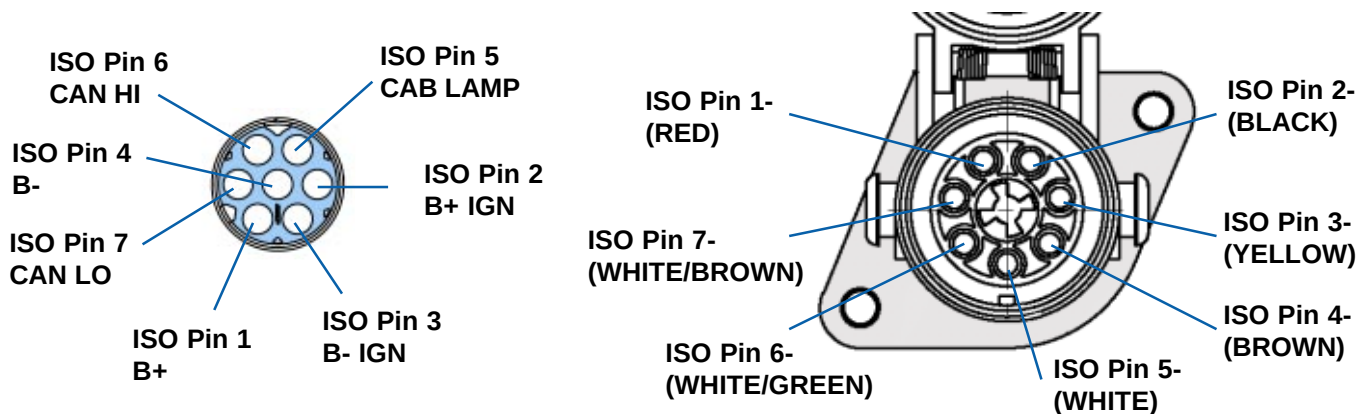
Options

length L (m)	OE part number	AM part number
2.5	815 012 001	Use OE No.

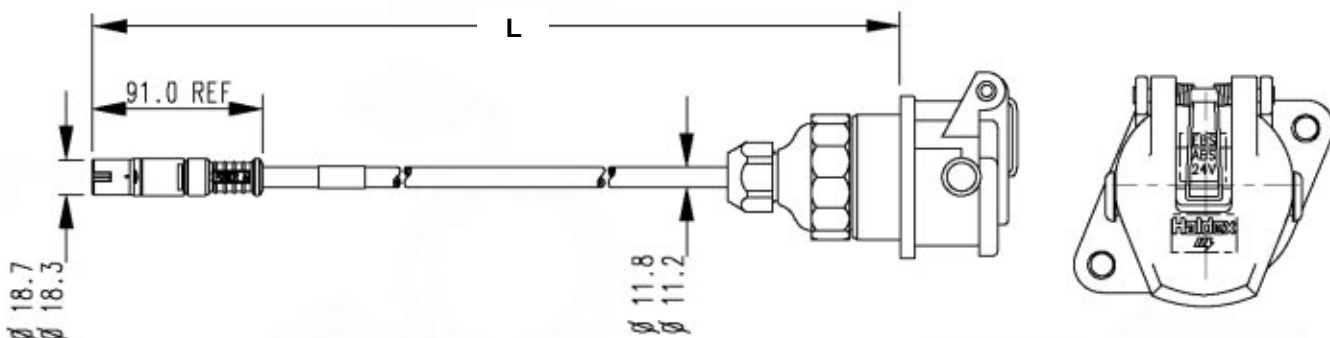
Information

Power supply cable with Socket according to ISO7638 + CAN
 Conforms to IP67 (BS EN 60529) when mated with EB+ ECU
 Cable material: PUR
 ISO Socket Cover: Black
 ECU Connector: Blue
 Operating voltage: 24V
 Operating temperature: -40°C to +70°C

Connector Details



Dimensions



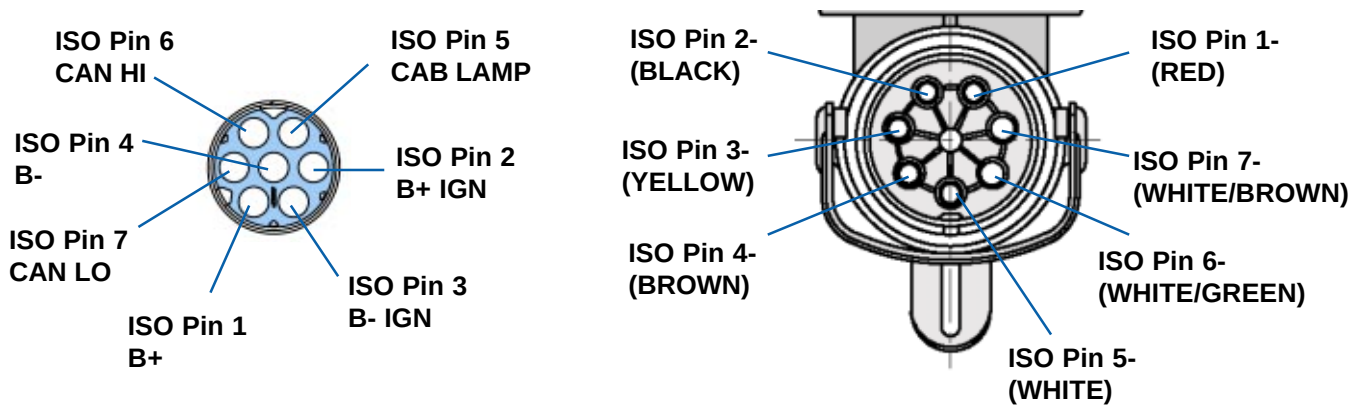
Options

length L (m)	OE part number	AM part number
6	814 003 151	950 800 406
9	814 003 131	950 800 404
12	814 003 101	950 800 401
14	814 003 141	950 800 405
16	814 003 111	950 800 402
18	814 003 121	950 800 403

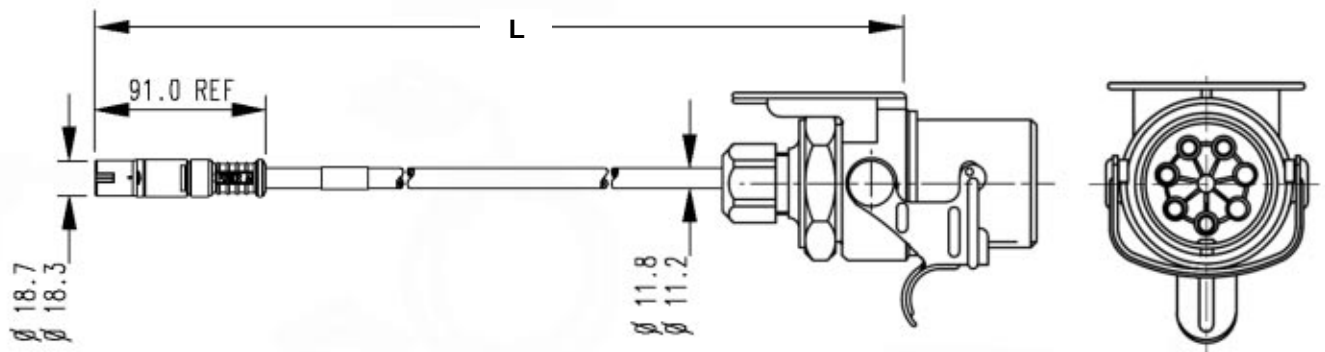
Information

Power supply cable with Plug according to ISO7638 + CAN
 Conforms to IP67 (BS EN 60529) when mated with EB+ ECU
 Cable material: PUR
 ISO Plug Cover: Black
 ECU Connector: Blue
 Operating voltage: 24V
 Operating temperature: -40°C to +70°C

Connector Details



Dimensions



Options

length L (m)	OE part number	AM part number
9	814 004 101	950 800 411
12	814 004 111	950 800 412

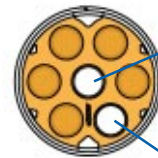
Information

Backup Power supply cable connecting into stoplamps circuit or ISO1185 (24N) Socket
 Conforms to IP67 (BS EN 60529) when mated with EB+ ECU
 Cable material: PUR
 ECU Connector: Orange
 Operating voltage: 24V
 Operating temperature: -40°C to +70°C

Connector Details

ISO1185 Pin 4- RED

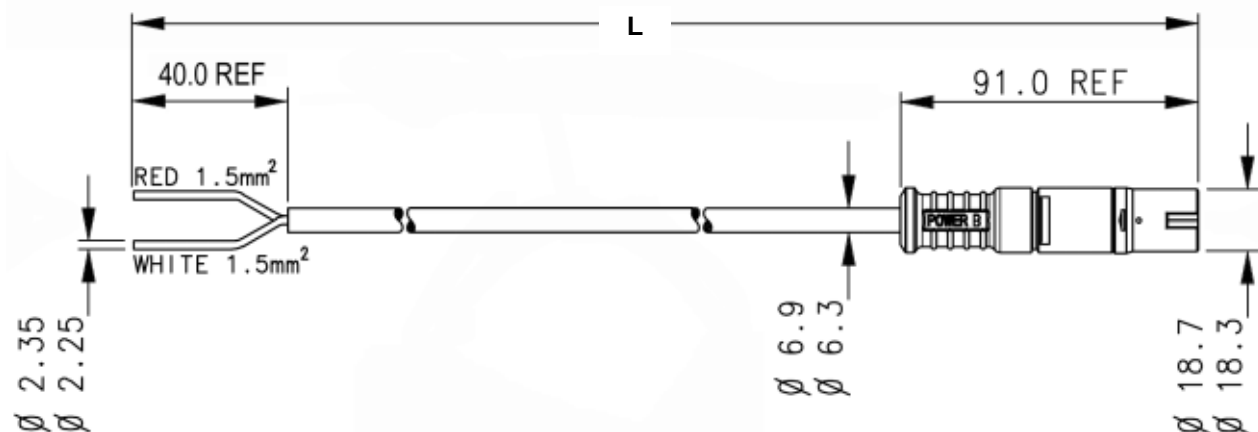
ISO1185 Pin 1- WHITE



(ISO1185 - Pin 1)
B-

(ISO1185 - Pin 4)
B+

Dimensions



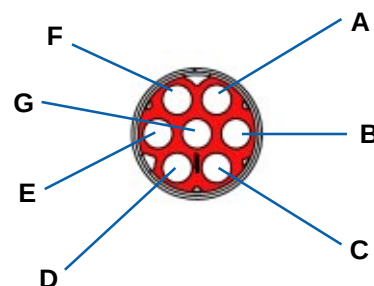
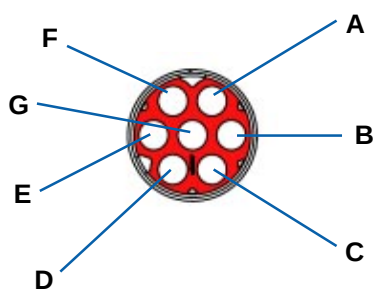
Options

length L (m)	OE part number	AM part number
4	814 002 231	950 800 424
6	814 002 221	950 800 422
12	814 002 201	950 800 421
16	814 002 211	950 800 423

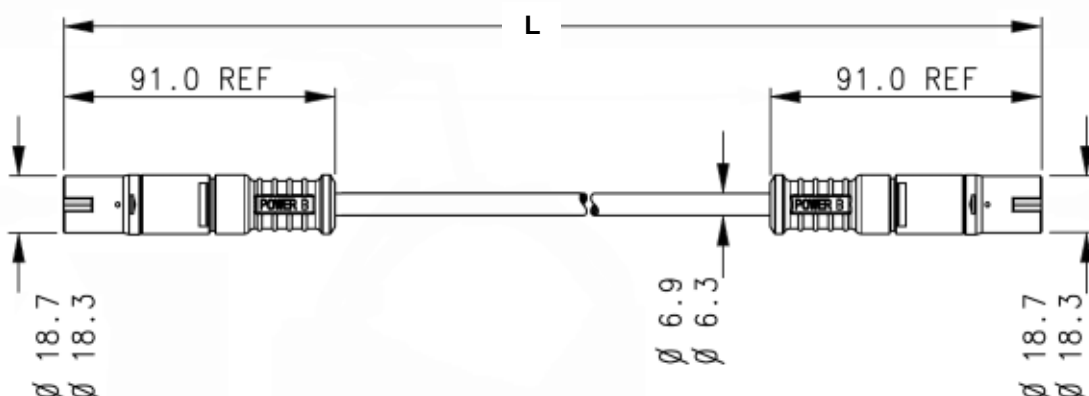
Information

Interconnecting cable between Master and Slave ECU on a 3M system
 Conforms to IP67 (BS EN 60529) when mated with EB+ ECU
 Cable material: PUR
 ECU Connector: Red
 Operating voltage: 24V
 Operating temperature: -40°C to +70°C

Connector Details



Dimensions



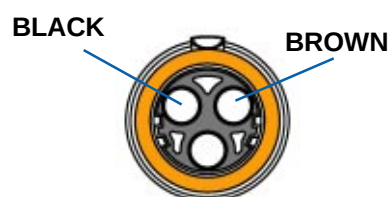
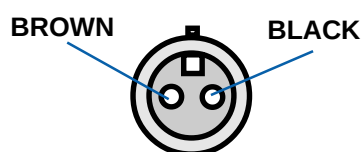
Options

length L (m)	OE part number	AM part number
2	814 001 011	950 800 472
5	814 001 021	950 800 473
8	814 001 051	950 800 476
10	814 001 041	950 800 475
12	814 001 001	950 800 471
14	814 001 031	950 800 474

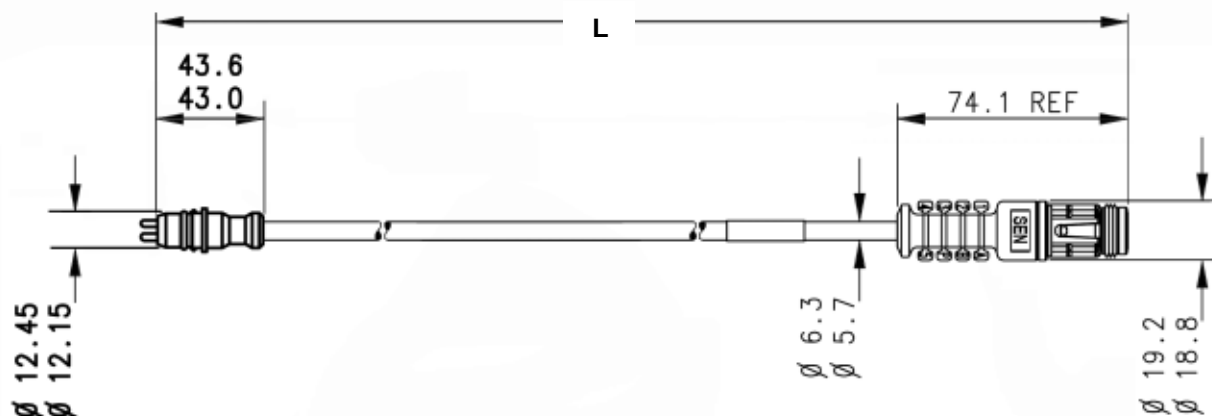
Information

Wheel speed sensor extension cable
 Conforms to IP67 (BS EN 60529) when mated with EB+ ECU
 Cable material: PUR
 ECU Connector: Black
 Operating temperature: -40°C to +70°C

Connector Details



Dimensions



Options

length L (m)	OE part number	AM part number
2	814 004 421	950 800 442
3	814 004 401	950 800 441
6	814 004 411	950 800 443
8	814 004 451	950 800 446
10	814 004 431	950 800 444
12	814 004 461	950 800 447
14	814 004 441	950 800 445

Information

Auxiliary equipment cable

Conforms to IP67 (BS EN 60529) when mated with EB+ ECU

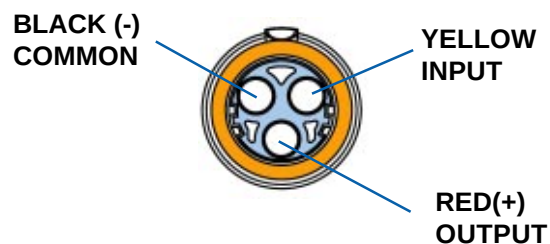
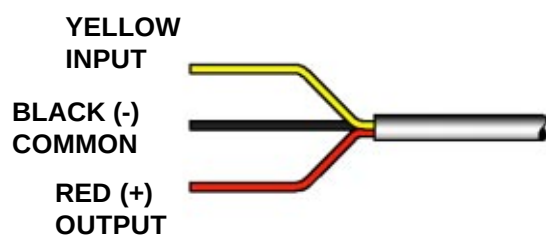
Cable material: PUR

ECU Connector: Blue

Outputs: AUX 1, 2 & 3 = 24V, 1.25 Amp, AUX 4 & 5 = 5V, 0.025 Amp

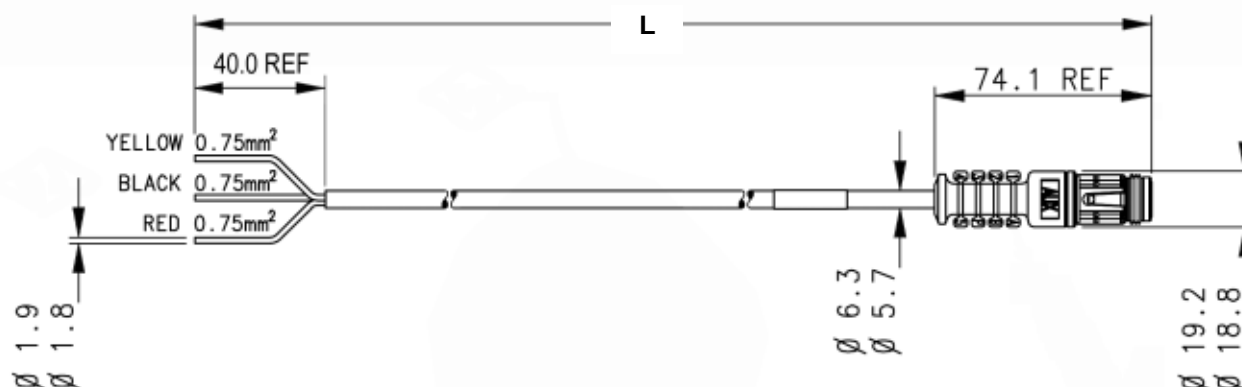
Operating temperature: -40°C to +70°C

Connector Details



OUTPUTS:
AUX 1, 2 & 3 = 24V
AUX 4 & 5 = 5V

Dimensions



Options

length L (m)	OE part number	AM part number
2	814 001 321	950 800 433
4	814 001 331	950 800 434
7	814 001 301	950 800 431
18	814 001 311	950 800 432

Information

Auxiliary equipment cable

Conforms to IP67 (BS EN 60529) when mated with EB+ ECU

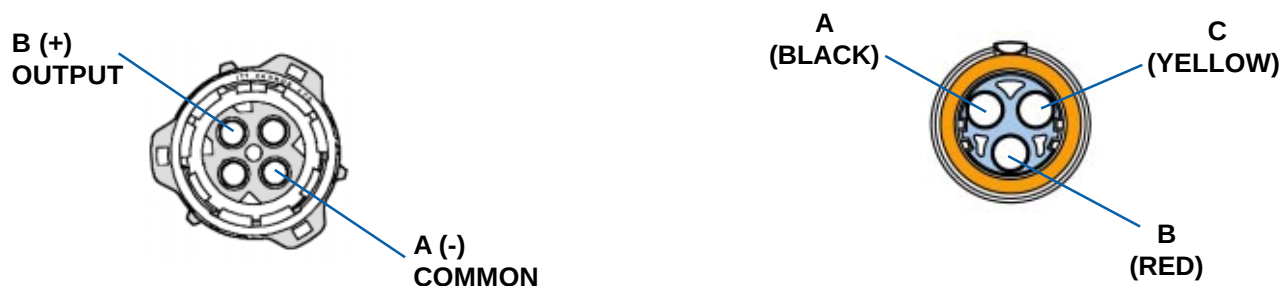
Cable material: PUR

ECU Connector: Blue

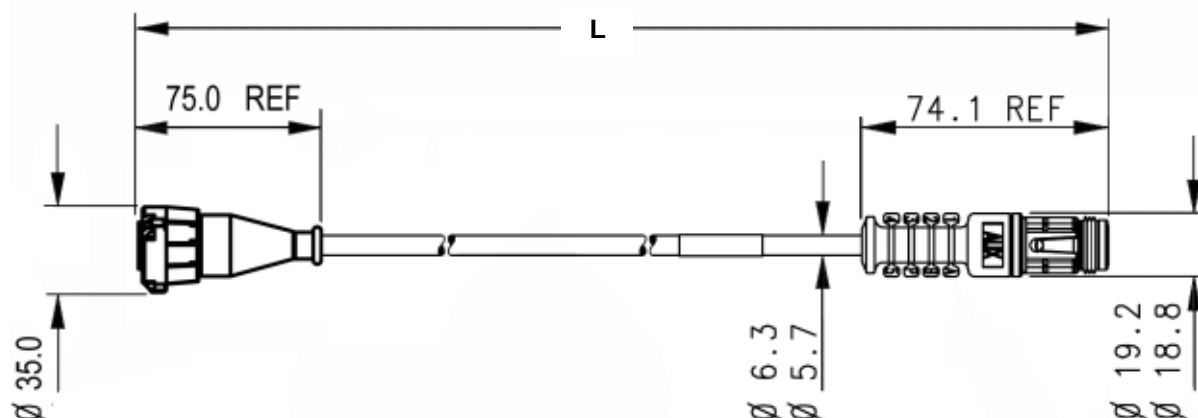
Operating outputs: AUX 1, 2 & 3 = 24V, 1.25 Amp, AUX 4 & 5 = 5V, 0.025 Amp

Operating temperature: -40°C to +70°C

Connector Details



Dimensions



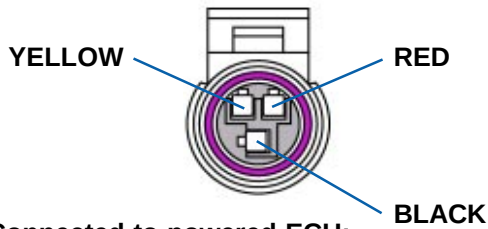
Options

length L (m)	OE part number	AM part number
1	814 012 021	950 800 483
2	814 012 031	950 800 484
5	814 012 041	950 800 485
7	814 012 001	950 800 481
18	814 012 011	950 800 482

Information

Connecting to an external installed Pressure switch
 Conforms to IP67 (BS EN 60529) when mated with EB+ ECU
 Cable material: PUR
 ECU Connector: Blue
 Operating temperature: -40°C to +70°C

Connector Details



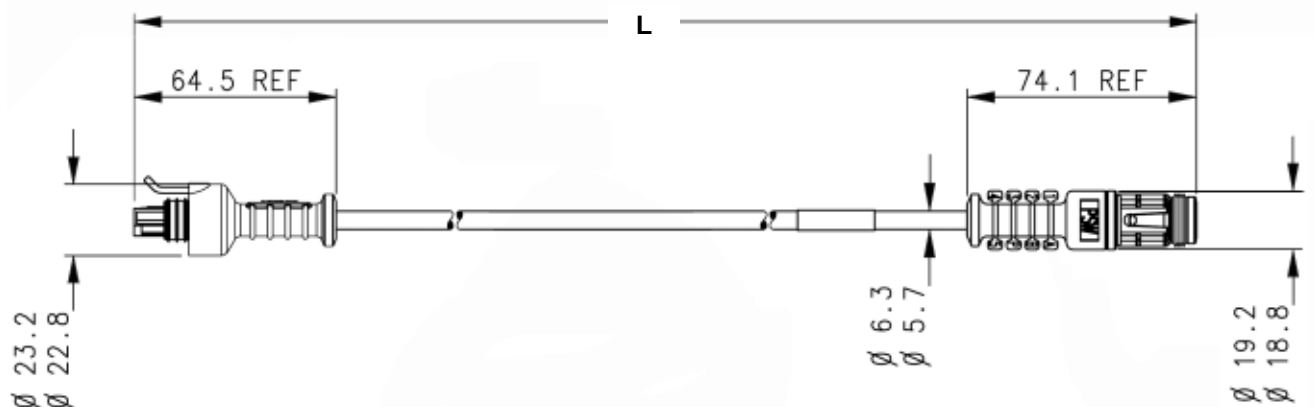
Connected to powered ECU:
 BLACK & YELLOW ~ 11V
 BLACK & RED ~ 11V



Pressure Switch connected:
 No Air : BLACK & YELLOW closed
 BLACK & RED open

 With Air : BLACK & YELLOW open
 BLACK & RED closed

Dimensions



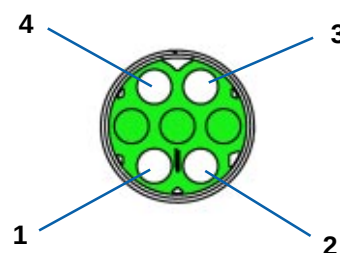
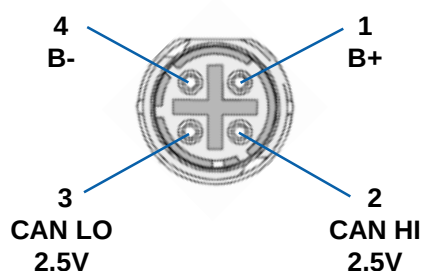
Options

length L (m)	OE part number	AM part number
0.75	814 001 521	950 800 453
2	814 001 511	950 800 452
3	814 001 531	950 800 454
5	814 001 541	950 800 455
8	814 001 551	950 800 456
10	814 001 501	950 800 451

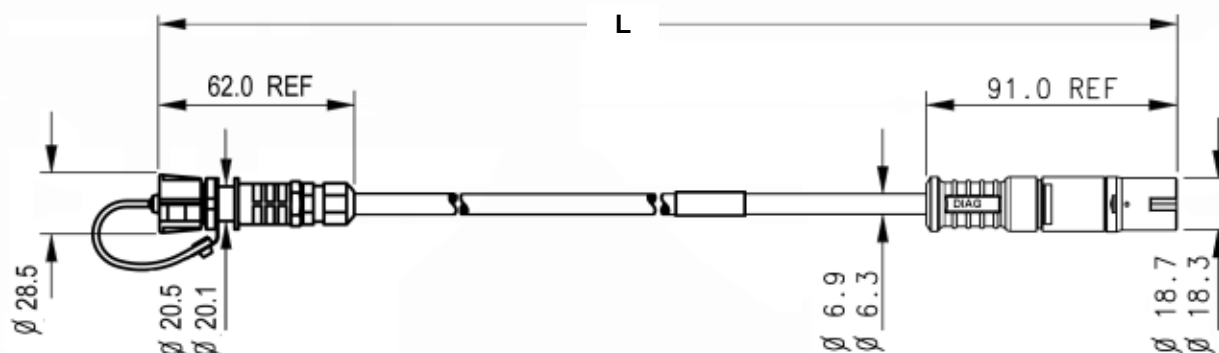
Information

Diagnostic connection installed on the outside of the vehicle
 Conforms to IP67 (BS EN 60529) when mated with EB+ ECU
 Cable material: PUR
 ECU Connector: Green
 Operating output: 24V, 1.5 Amp
 Operating temperature: -40°C to +70°C

Connector Details



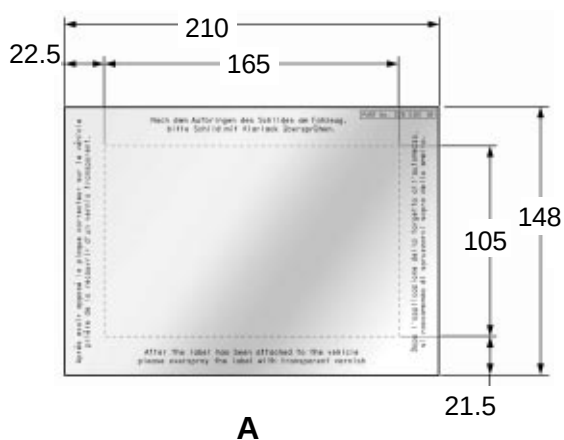
Dimensions



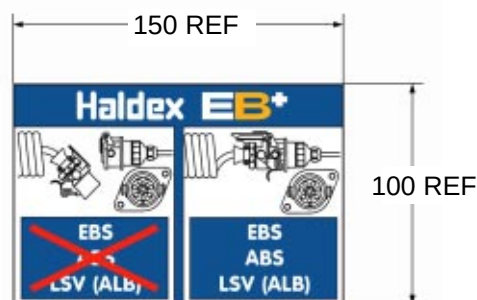
Options

length L (m)	OE part number	AM part number
2.5	814 010 011	950 800 462
5	814 010 021	950 800 463
6.5	814 010 001	950 800 461
15	814 010 031	950 800 464

Dimensions



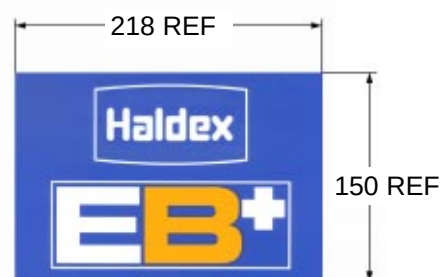
A



B



C



D

Options

type	OE part number	AM part number	note
A	028 5301 09	Use OE No.	Load plate pressure data label
B	028 5262 09	Use OE No.	Trailer headboard information label
C	028 5276 09	Use OE No.	Side of Vehicle
D	028 5277 09	Use OE No.	Side of Vehicle

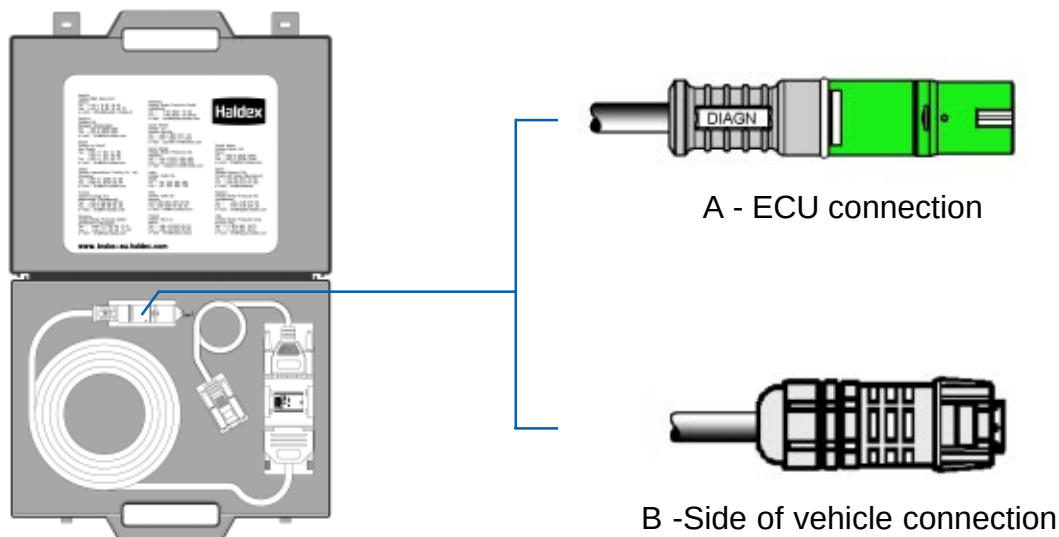
Information

Diagnostic, ECU Programming and End of line Test (DIAG+) package for PC use

Connection: COM Serial RS232 port or via a USB to serial converter (Rec. type RS 450-3238)

PC specification: Processor: 486 or above
 RAM: 8Mb (16Mb recommended)
 Hard Drive: 20Mb
 Monitor: 640 x 480 VGA min.
 Op.System: MS Windows 95, 98, ME, XP, NT and 2000

Dimensions

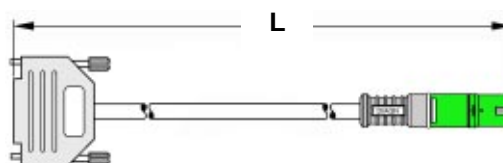


Options

type	OE part number	AM part number	note
A+B	815 001 001	Use OE No.	ECU and Side of vehicle connection Kit

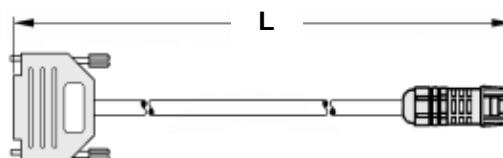
Cable - ECU connector to Interface

length L (m)	OE part number	AM part number
6.5	814 001 601	Use OE No.
15	814 001 611	Use OE No.
20	814 001 621	Use OE No.



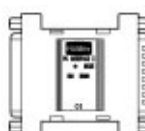
Cable - Side of Vehicle connector to Interface

length L (m)	OE part number	AM part number
6.5	814 011 001	Use OE No.
15	814 011 011	Use OE No.



Interface (Dongle)

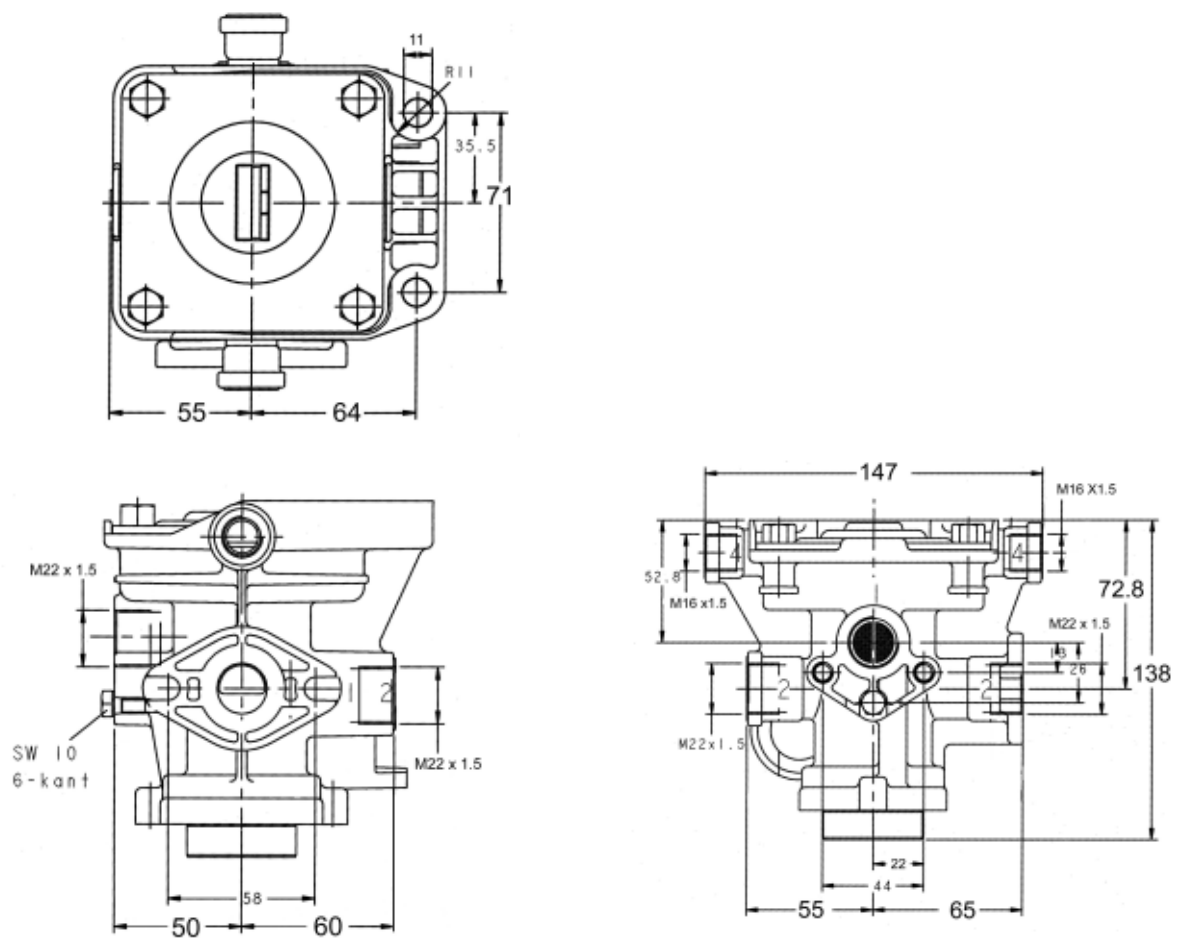
OE part number	AM part number
815 001 401	Use OE No.



Information

Mass of assembly: 1.7Kg
 Working pressure: Air 0 - 8.5 bar (9.5 bar max)
 Operating temperature: -40°C to +80°C
 Installation attitude $\pm 15^\circ$
 Recommended fixing screws 2 x M8 x 1.25, T 15Nm max.

Dimensions



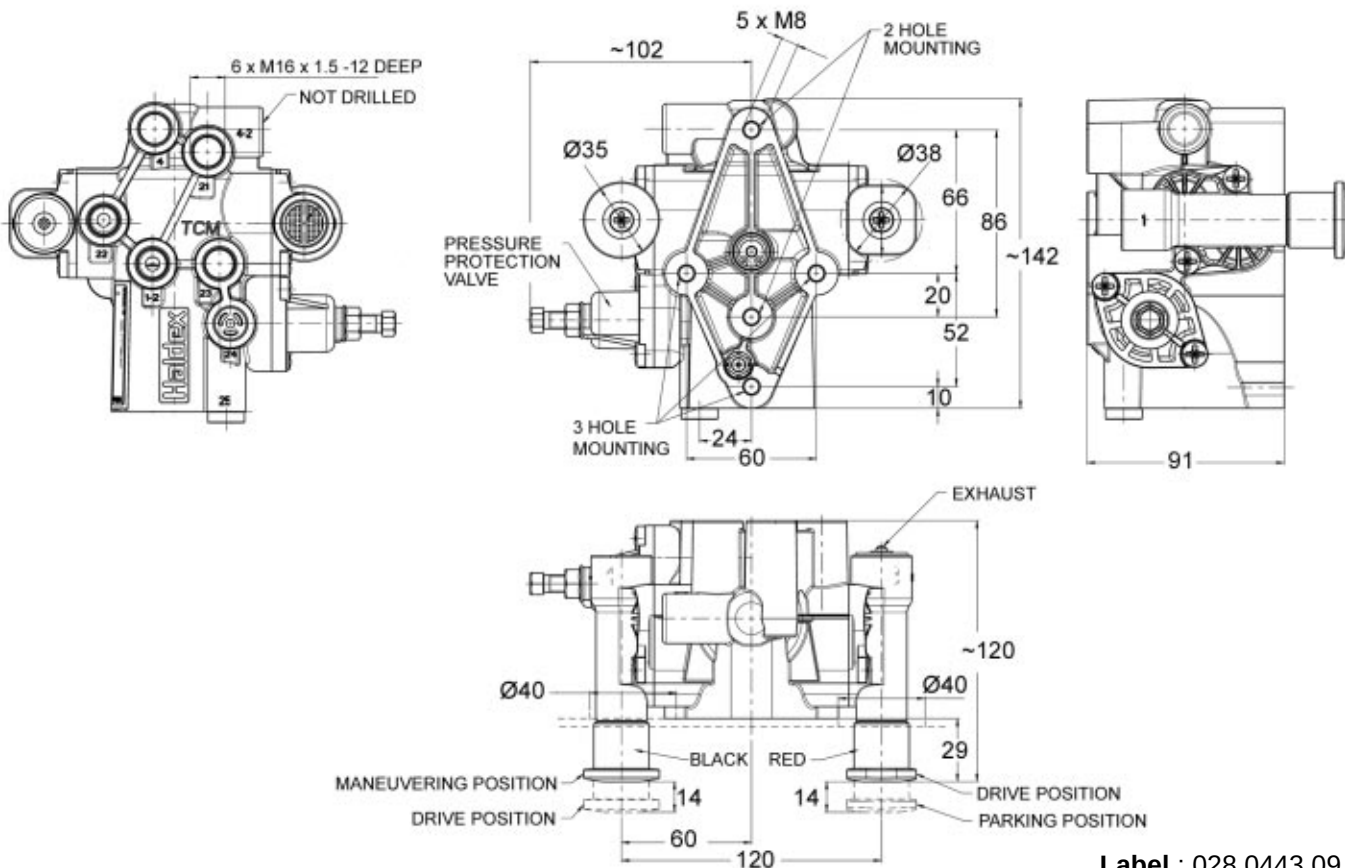
Options

OE part number	AM part number
351 033 001	-

Information

Park and Shunt valve with integrated emergency valve (without relay - function)
 Integrated pressure protection valve - Opening pressure 6.2 bar, Closing Pressure 5.2 bar
 Mass of assembly: 1.8Kg
 Working pressure: Air 0 - 8.5 bar (10 bar max)
 Operating temperature: -40°C to +80°C
 Installation attitude ±15°
 Recommended fixing screws 5 x M8 x 1.25, T 15Nm max

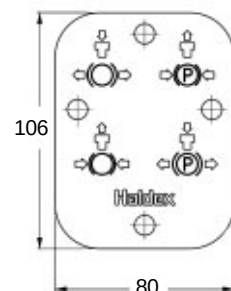
Dimensions



Port Designation:

- 1 = Supply
- 1-2 = Inlet (Reservoir)
- 3 = Exhaust
- 4 = Control
- 4-2 = Test port (not drilled)
- 21 = EBS (Port 4)
- 22 = Spring brake actuator (Double check valve)
- 23,24,25 = Pressure protection valve output ports

Label : 028 0443 09



Options

OE part number	AM part number	note
352 067 001	-	With Label (028 0443 09)
352 067 011	-	Without Label

Information

Electrical controlled valve for Lifting/Lowering air suspension axles

Mass of assembly: 0.8Kg

Working pressure: Air 0 - 8.5 bar max

Required switch pressure: >2.5 bar

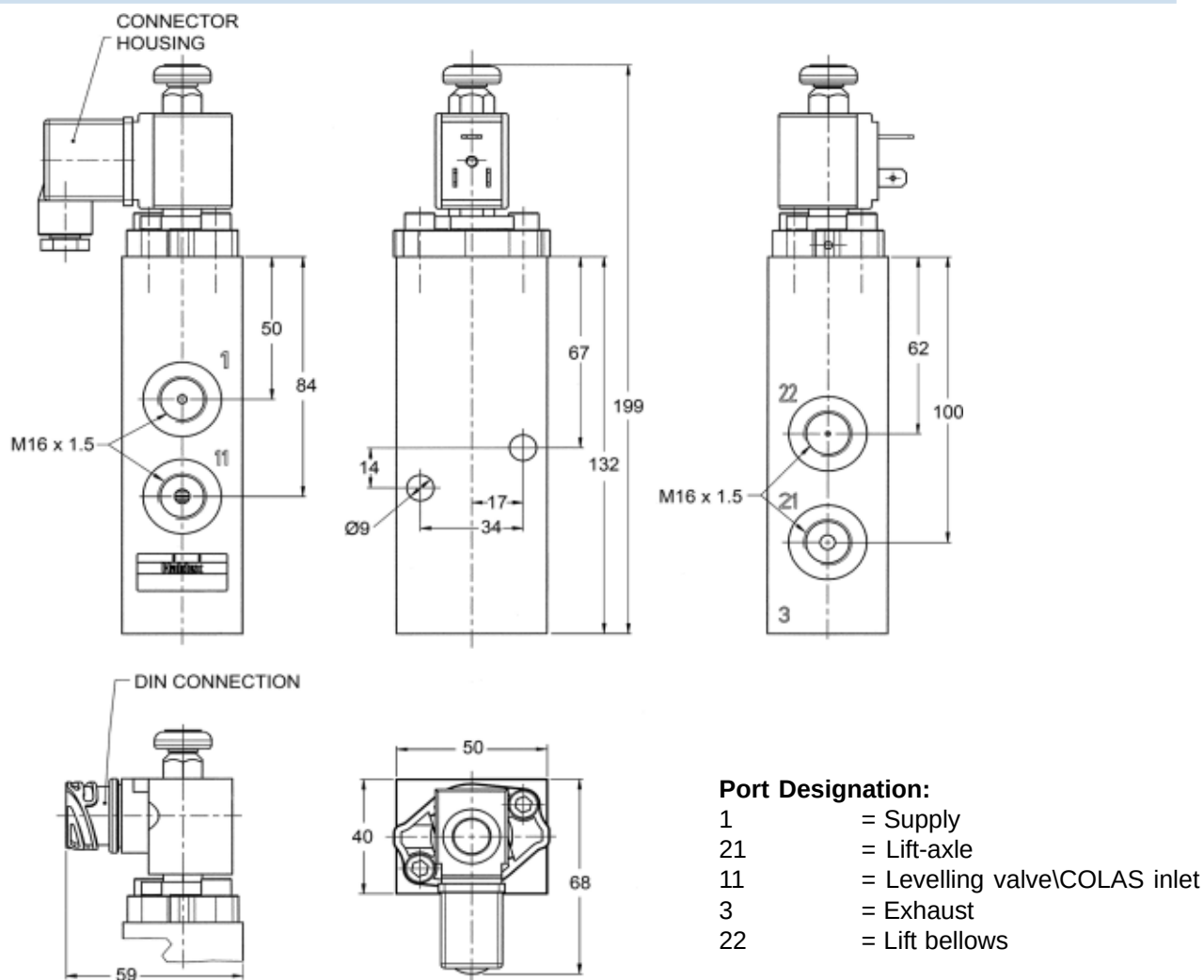
Operating temperature: -40°C to +80°C

Installation attitude ±15°

Recommended fixing screws 2 x M8 x 1.25, T 15Nm max.

Solenoid valve: UB = 24VDC, (+2.5 -3.5) , Io = 250 mA / Po = 6W

Dimensions



Options

type	OE part number	AM part number	note
A	352 061 001	-	M16 x 1.5 ports
A	352 061 011	-	M16 x 1.5 ports, DIN connection
B	352 062 001	-	Push in fitting 8 x1 plastic tubing
B	352 062 011	-	Push in fitting 8 x1 plastic tubing, DIN connection

Recommended fixing screws 2 x M8 x 1.25, T 15Nm

1 = Supply
11 = Air Reservoir (With
Internal check valve)
21 = Not Drilled
22 = Spring Brake Cylinder

31

description	part number	language	note
EB+ OE Installation Instructions	000 700 240	GB, D, F	
EB+ Retrofit Installation Instructions	000 700 298	GB	
EB+ Operators Guide	000 700 241	GB, D	
EB+ Info Centre User Guide	000 700 270	GB, D, F	
EB+ Info Centre Installation Instructions	000 700 271	GB, D, F	
EB+ DIAG+ User Guide	000 700 255	GB, D	Part of kit see page 26
EB+ Lining Wear System Installation Instructions	000 700 297	GB	
EB+ Lateral Accelerometer Installation Instructions	000 700 287	GB	
EB+ OE Part Numbers Chart	000 700 272	GB, D, F	
EB+ AM Part Numbers Chart	000 700 273	GB	
EB+ 1M-2M Wall Chart 3M Wall chart (reverse side)	000 700 313	GB	A2 size
EB+ Brochure	000 700 272	GB, D, F, S	
EB+ 1M Product Info	000 700 301	GB, D, F	
EB+ 2M Product Info	000 700 302	GB, D, F	
EB+ 3M Product Info	000 700 303	GB, D, F	
EB+ Lining Wear System Product Info	000 700 304	GB, D, F	
EB+ Stability Product Info	000 700 305	GB, D, F	
COLAS® Installation Instructions	000 700 024 000 338 051 000 850 016	GB D PL	
ILAS®-E Installation Instructions	000 700 029 000 352 061 000 850 018	GB D PL	

AUSTRIA
Haldex Wien Ges.m.b.H
Vienna
Tel: + 43 865 16 40
Fax: + 43 865 16 40 27
e-mail: office@baeder-haldex.at

BENELUX
Haldex N.V.
Balegem (Oosterzele)
Tel: + 32 9 3639 000
Fax: + 32 9 3639 009
e-mail: info.hbe@haldex.com

BRAZIL
Haldex do Brazil
São Paulo
Tel: + 55 11 5034 49 99
Fax: + 55 11 5034 95 15
e-mail: info@hbr.haldex.com

CHINA
Haldex International Trading Co. Ltd.
Shanghai
Tel: + 86 21 6289 4469
Fax: + 86 21 6279 0554
e-mail: haldex@public.sta.et.cn

FRANCE
Haldex Europe S.A.S
Weyersheim (Strasbourg)
Tel: + 333 88 68 22 00
Fax: + 333 88 68 22 09
e-mail: info@hfr.haldex.com

GERMANY
Haldex Brake Products G.m.b.H
Denkendorf (Stuttgart)
Tel: + 49 711 93 49 17 0
Fax: + 49 711 93 49 17 40
e-mail: info@hde.haldex.com

Haldex Brake Products G.m.b.H
Heidelberg
Tel: + 49 6221 70 30
Fax: + 49 6221 70 34 00
e-mail: info@hbpde.haldex.com

GREAT BRITAIN
Haldex Ltd.
Newton Aycliffe
Tel: + 44 1 325 310 110
Fax: + 44 1 325 311 834
e-mail: aycliffe.info@haldex.com

Haldex Brake Products Ltd.
Redditch
Tel: + 44 1527 499 499
Fax: + 44 1527 499 500
e-mail: redditch.info@haldex.com



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Haldex Traction Systems supplies 4WD systems for cars and trucks.

Sales companies are established in Europe, North and South America and Asia. Production takes place in 9 factories in USA, 9 factories in Europe and 1 joint venture in India. The Haldex Group is listed on the Stockholm Stock Exchange.

ITALY
Haldex Italia Srl.
Muggiò
Tel: + 39 039 278 23 50
Fax: + 39 039 79 65 25
e-mail: info@hit.haldex.com

POLAND
Haldex Sp z o.o.
Praszka
Tel: + 48 34 350 11 00
Fax: + 48 34 350 11 11
e-mail: info@haldex.net.pl

SOUTH KOREA
Haldex Korea Ltd.
Seoul
Tel: + 82 2 2636 7545
Fax: + 82 2 2636 7548
e-mail: haldexk@mail.hkr.haldex.com

SPAIN
Haldex España S.A.
Parets del Valles (Barcelona)
Tel: + 34 93 573 1030
Fax: + 34 93 573 0728
e-mail: haldexsa_esp@passwordsta.es

SWEDEN
Haldex Brake Products AB
Landskrona
Tel: + 46 418 47 6000
Fax: + 46 418 47 6001
e-mail: info@hbpse.haldex.com

USA
Haldex Brake Products Corp.
Kansas City
Tel: + 1 816 891 2470
Fax: + 1 816 891 9447
e-mail: info@hbpus.haldex.com

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The aim is accurate specification for manufactures and low cost of owner ship for the operator.

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Continual, heavy investment in Research and Development is carried out in response to ever increasing commercial, legislative, environmental, performance and technological demands.

Quality and Production Standards

The very latest production technology ensures the very highest quality standards. All production sites are ISO 9001 approved.



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