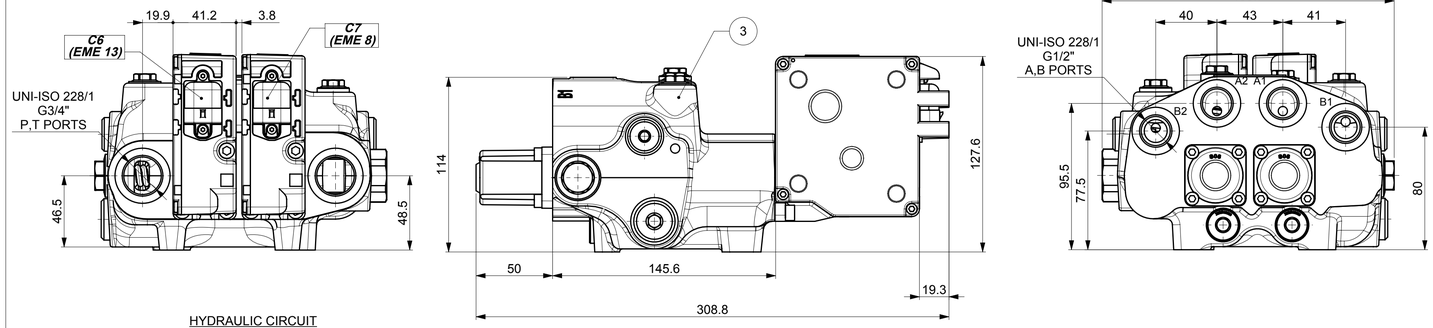
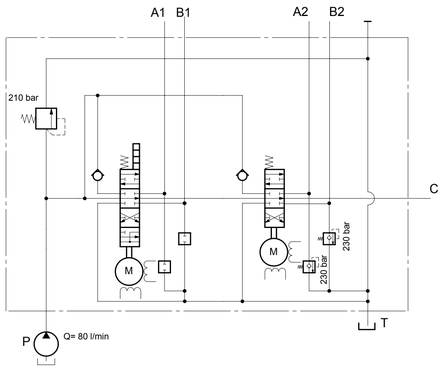


HYDRAULIC CIRCUIT

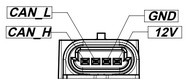


SPECIFICATIONS

Nominal flow	: 80 l/min
Nominal pressure	: 250 bar
Max backpressure	: 25 bar
Fluid	: Mineral based oil
Viscosity range	: 12 to 400 mm²/s
Seals material	: NBR
Oil temperature range	: -20 to 80 °C
Environmental temperature	: -40 to 60 °C
Max oil level contamination	: 19/16 ISO4406

TECHNICAL DATA - EME CONTROL

Force	up to 160N
Speed	up to 80 mm/s
Residual Force	< 45 N
Travel	± 12 mm
Resolution	0.01 mm/incr.
Integrated Electronics Driver	CAN 2.0 B (SAEJ1939)
Supply voltage	9 - 16 VDC
Operational temperature	-25 +85°C
Max. axial play after life time	< 0.25 mm
EMC	ISO 14982
Vibration	IEC 68-2
Current	Neutral: 210mA Idle: 560mA Motor running: 1700mA (average @ 80mm/s) Peak: 3000mA (peak @ 80mm/s)

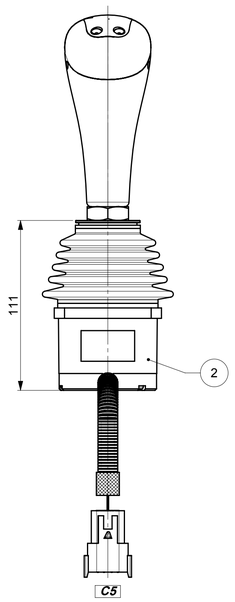


Delphi metri-pack 150.2

NOTES

It is recommended to use wires with appropriate length and section, according to the current consumption of the actuators.
Otherwise, the voltage drop may reduce the actuator force performance.

Parameter such as force, speed or travel may be limited by WST software according to the application.



TECHNICAL DATA

Electrical Data

Supply voltage range : 8-16V
Max supply current : 100 mA (no load)
Axis X-Y, Xr-Yr :
Signal (full range) : 0,5 ÷ 4,5V
Signal (neutral position) : 2.5V
Signal Tolerance : ± 200mV in neutral
± 150mV at the end of stroke

Environmental Data

Working temperature range : -40/+85°C
Deflection angle : ±20° ±1°
EMC according to ISO 14982 / 13766

Push-buttons P1-P3

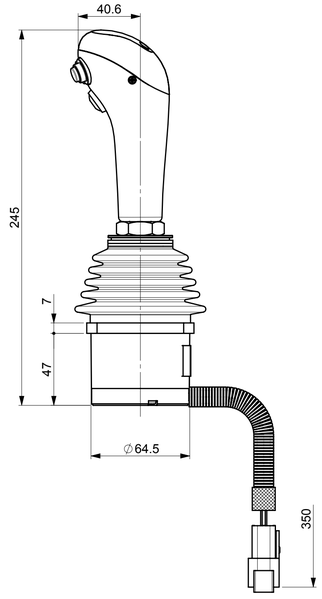
Execution : spring return (P1)-detent (P3)
Current rating : 50mA
Mechanical life : 1.000.000 cycles
Electrical life : 500.000 cycles

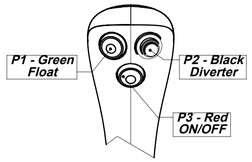
Push-buttons P2

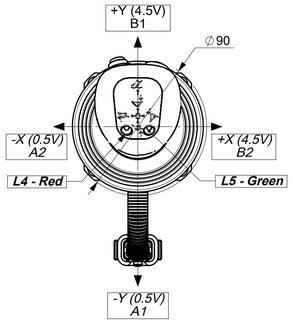
Execution : spring return
Current rating : 6A
Mechanical life : 50.000 cycles
Electrical life : 25.000 cycles

IMPORTANT

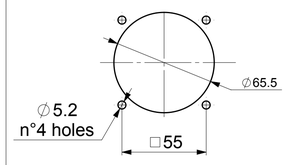
*The coil driven by P2 **MUST** have a free wheeling diode.*







INSTALLATION NOTES
Fixing Hole for joystick

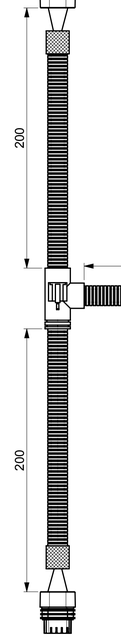


Maximum panel thickness : 4mm

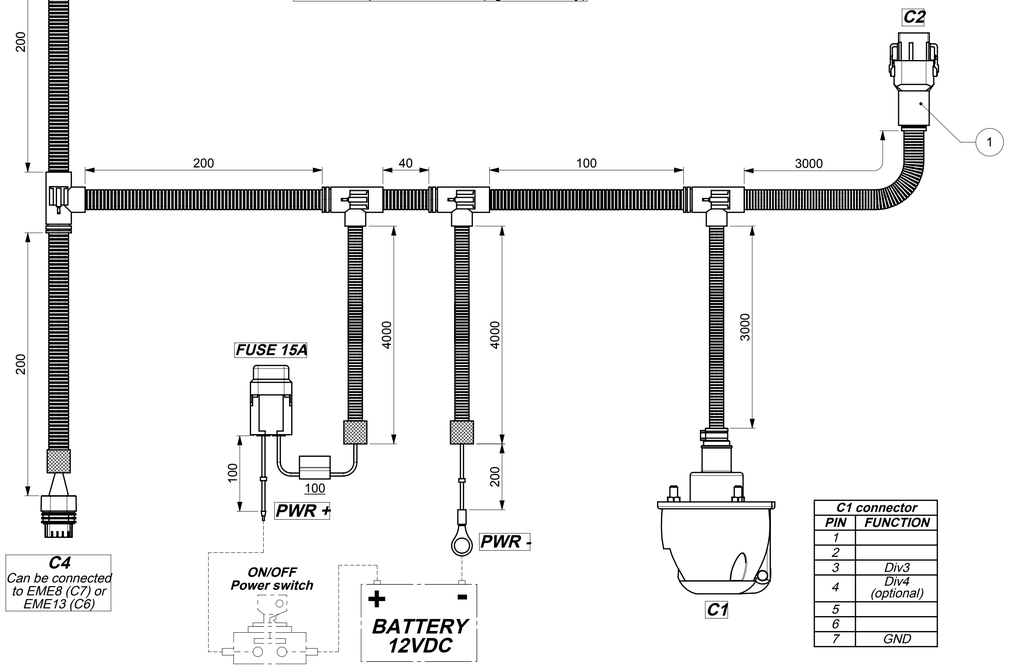
PIN OUT C5 CONNECTOR
Deutsch DTM04-8P

Pin	Functions	Color	Value
1	Vk+	Red	Vbb
2	CAN_L	Green	
3	CAN_H	Yellow	
4	VJ-	Brown	GND
5	P2	Blue	
6		White	
7	VJ+	White/Black	Vbb
8	Plug		

C3
Can be connected to EME8 (C7) or EME13 (C6)

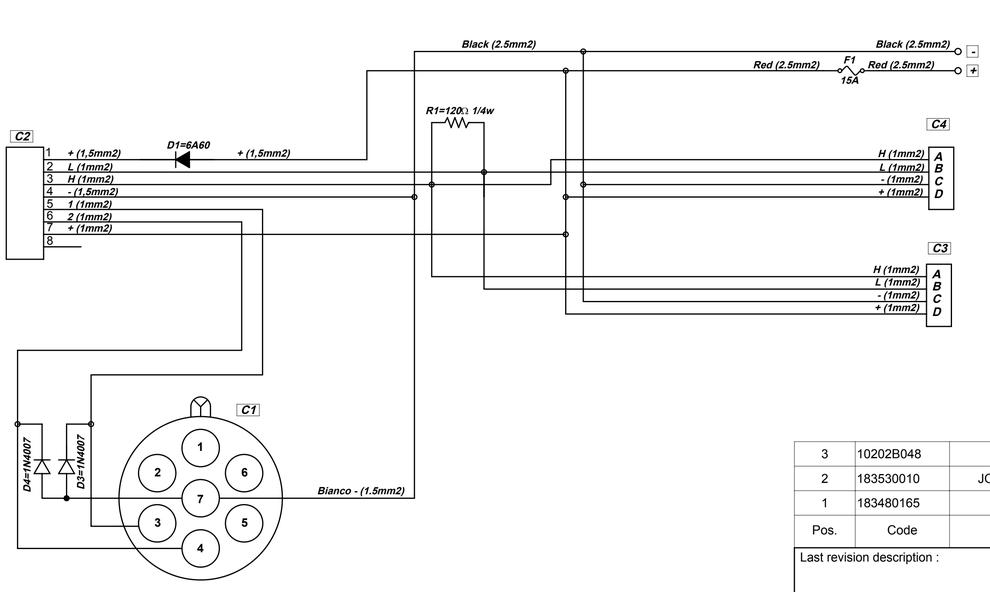


IMPORTANT
PWR- must be connected directly to battery
PWR+ must be connected to a power off switch (eg. tractor key)



C4
Can be connected to EME8 (C7) or EME13 (C6)

C1 connector	
PIN	FUNCTION
1	
2	
3	Div3
4	Div4 (optional)
5	
6	
7	GND



FUNCTION DESCRIPTION

-Float function is activated by P1 and Y+ (over 50% of the stroke). Float is disabled by Y- (over 50% of the stroke).
-At start-up red and green led flash 3 times.
-P2 directly commands Div3.
-When system is ready to work, red led is on.
-When system is in error, both led flash the error code.
-P3 turns OFF/ON only the joystick.

⚠ ⚠ *-An external power off switch is required to turn OFF/ON the EME controls and joystick.*

Pos.	Code	Description	Quan.
3	10202B048	SDM122/2-P	1
2	183530010	JOYSTICK CJW2033A-FWV-B-1MV2-2KN5-3MR3-4	1
1	183480165	KIT CAVO KCD05 PHC210C	1

Last revision description :

Scale 1:2 | A1-SW

Description :
SDM122/2-P(UD-210)/1SOHF[S]13EME.
UJT/1SOHF[S]8EME.U3/230)/AE-BSP34
(PT)12(ABC)-<CVN2E-Ref.PRESERIES>+
KCD05/D2M06-01CCF07600(TC)-02M2
M04345(TC)-03M2M04345(TC)-AU2F15735
(TC)-AU1730(TC)+CJW2033A-FWV-B-1MV2-
2KN5-3MR3-4RL-5VL/(D2F08035)-(TC)

walvoil
HYDRAULIC CONTROL SYSTEMS

Substitute

Technical Reference:
Beneventi

http://www.walvoil.com
e-mail: info@walvoil.com
REGGIO EMILIA - ITALY

Draw. 16/07/15 Agnesini

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