



AL.MEC

M E C H A T R O N I C S

SPN.00

SPIDERNODE SPN1



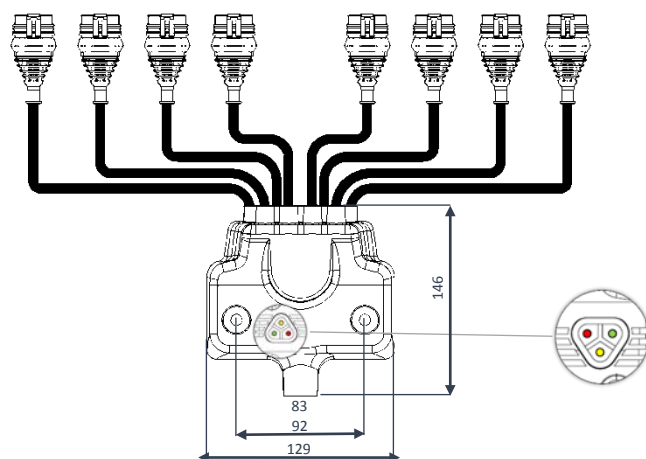
TECHNICAL FEATURES

MASTER CODE	SPN.00
POWER SUPPLY	9-36 VDC / CURRENT ABSORPTION 25mA AT 24VDC (STAND BY MODE)
CAN BUS	2.0B COMPLIANT - (11, 29 BIT) - ISO 11898 - UP TO 1MBIT/S
CAN BUS PROTOCOLS	CAN OPEN (CIA DS301 DEVICE PROFILE FOR GENERIC I/O MODULE, WITH DS306 EDS FILE)- SAE J1939 - ISO 11783 (ISO BUS) – FMS
CONNECTIONS	N. 1 AMP SUPERSEAL 6 PIN, N. 9 AMP SUPERSEAL 4 PIN
WORKING TEMPERATURE	-40°C +80°C
CASE	PUR

ELECTRONIC FEATURES

SLAVE USAGE	BY EDS FILE (CODESYS COMPATIBLE)
MASTER USAGE	BY STANDARD C PROGRAM LANGUAGE
PROGRAMMING	FIRMWARE UPLOAD BY CAN BUS WITH ALOADER SOFTWARE TOOL
CYCLE TIME	50 ms

SIZE (mm)



STANDARDS

ELECTROMAGNETIC EMISSIONS	EN 61000-6-4// EN 55011 (RF RADIATE)
ELECTROMAGNETIC IMMUNITY	EN 61000-6-2// EN 61000-4-2/3/4/6
IP	BOX: IP68; CONNECTORS: IP67
MTTFD	55,98 YEARS CALCULATED ACCORDING TO THE IEC61709 (SIEMENS SN29500), ENVIRONMENTAL FACTORS 3K7 (IEC60721)

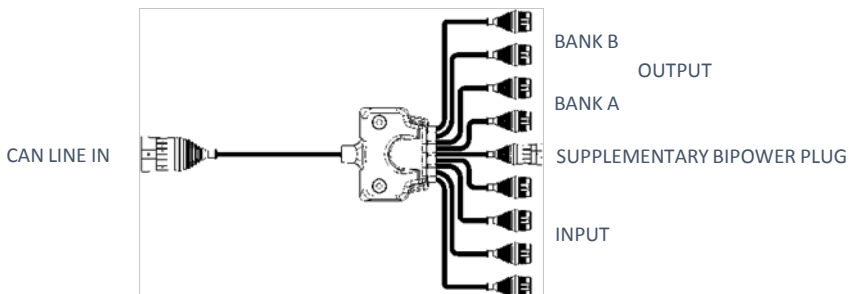
IN ACCORDANCE WITH THE EN50948 THE DEVICE MEETS THE TECHNICAL SPECIFIC REQUIREMENTS OF 2004-104 DIRECTIVE (AUTOMOTIVE). THE DEVICE IS EMC 2004/108 COMPLIANT.





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CODE TABLE

INPUT		OUTPUTS								
BASIC	4 UNIVERSAL INPUT 4÷20 mA (0÷25 mA) 0÷5 V 0÷10 V 0÷40 V HIGH SIDE INPUT LOW SIDE INPUT 4 DIGITAL INPUTS HIGH SIDE INPUT LOW SIDE INPUTS	8 HIGH SIDE OUTPUTS – IN TWO INDEPENDENT BANKS								
		PIN 5 (CAN LINE PLUG)				PIN 6 (CAN LINE PLUG)				
		BANK A				BANK B				
		DIGIT PWM	RATIO	RELAY	OPT. 1	DIGIT PWM	RATIO	RELAY	OPT. 2	
		4	0	0	A	4	0	0	A	
		3	0	1	B	3	0	1	B	
		2	1	0	C	2	1	0	C	
		2	0	2	D	1	0	2	D	
		1	1	1	E	0	1	1	E	
		0	2	0	F	0	2	0	F	
0	1	2	G	0	1	2	G			
HIGH SIDE OUTPUTS										
SINGLE OUT MAX CURR: 5A				BANK TOTAL CURRENT: 8A						
4 SUPPLEMENTARY – LOW SIDE OUTPUTS										
SINGLE OUT MAX CURRENT: 4A				BANK TOTAL CURRENT: 8A						
BIPOWER	SUPPLEMENTARY BIPOWER PLUG	IMPORTANT: BIPOWER CONNECTION EXCLUDES THE SUPPLY (A/B BANKS) BY DOUBLE CAN LINE								
		OPT 3								
		BANK A BIPOWER								1P
		BANK B BIPOWER								2P
BANK A AND B BIPOWER								3P		
HIGH SIDE OUTPUTS										
SINGLE OUT MAX CURR: 5A				BANK TOTAL CURRENT: 16A						

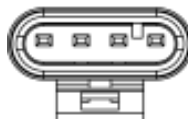
CAN LINE IN

PIN	DESCRIPTION
1	POWER SUPPLY
2	LINE H (CANBUS)
3	GND
4	LINE L (CAN BUS)
5	SUPPLY OUTPUTS 1..8
6	SUPPLY OUTPUTS 9..16



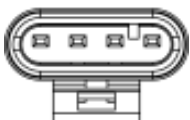
INPUT

PIN	DESCRIPTION
1	POSITIVE
2	INPUT (D:L-H)
3	GND
4	INPUT (A/D:L-H)



OUTPUT

PIN	DESCRIPTION
1	OUTPUT (A/D:H)
2	OUTPUT (A/D:H)
3	GND
4	OUTPUT LOW SIDE



SUPPLEMENTARY BIPOWER PLUG

PIN	DESCRIPTION
1	SUPPLY OUTPUTS 1..8
2	GND
3	SUPPLY OUTPUTS 9..16
4	GND

