



JCLUSTER

Preliminary technical brochure



ITALIAN DESIGN
SOFTWARE CUSTOMIZATION
SAFETY CARE
OPERATOR ORIENTED

TECHNICAL FEATURES

Operating voltage: 8 – 32 Vdc, protected against reverse polarity

Operating temperature: -20°C +70°C

Material: PC- ABS

Sealing: IP67 front IP65 rear

CPU: - 16 bit Spansion microcontroller

Memory:

- FLASH: 256,5KB + 32KB
- FLASH SPI 2MB
- RAM: 16KB
- EEPROM 64Kb

LCD TFT panel:

- Format: 2,4inch
- Resolution: 240x320 dots
- Orientation: Landscape or portrait
- Backlight: LED 220cd/m²
- Contrast ratio: 350

23 Digital INPUT (active high or low settable by SW)

4 Analog INPUT (resistive type)

1 Analog INPUT (4-20 mA)

2 Frequency INPUT

10 protected HIGH SIDE OUTPUT 2A with current feedback (+/-12% accuracy)

15 LED indicator

1 LED bar graph

3 stepper motor gauge

1 CANBUS 2.0 part A and B up to 1Mbps (ISO 11898 standard)

1 buzzer 85dB @30cm

1 internal RTC (real time clock) with lithium battery

Programmable in C languages

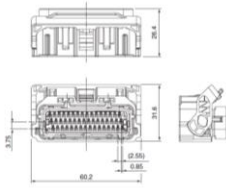
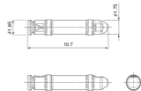
CAN bootloader for FW upgrade

PINOUT

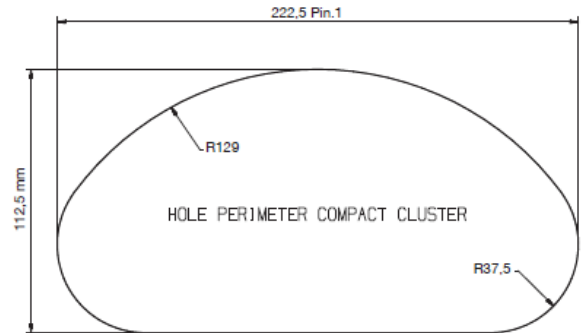
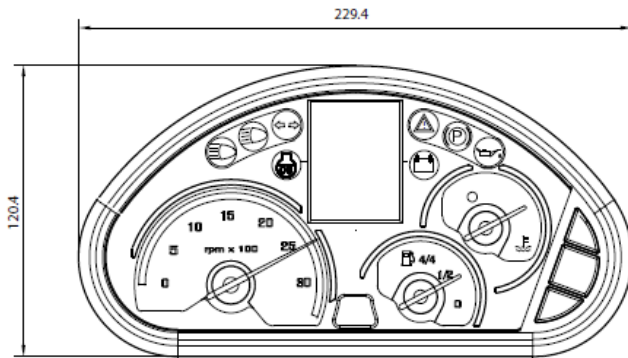
PIN	Function
1	GROUND
2	OUT HSD8
3	OUT HSD7
4	OUT HSD6
5	OUT HSD5
6	OUT HSD10
7	OUT HSD9
8	INPUT DIG20
9	INPUT DIG7
10	INPUT RESISTIVE 4
11	INPUT FREQUENCY 1
12	INPUT DIG21
13	INPUT DIG22
14	INPUT DIG23
15	K30 (VBATT)
16	INPUT RESISTIVE 2
17	K30 (VBATT)
18	K30 (VBATT)
19	INPUT DIG2
20	INPUT DIG1
21	INPUT DIG3
22	INPUT DIG4
23	INPUT DIG6
24	INPUT DIG8

PIN	Function
25	INPUT DIG9
26	INPUT RESISTIVE 3
27	INPUT DIG12
28	INPUT DIG14
29	INPUT DIG16
30	INPUT DIG18
31	INPUT DIG19
32	INPUT DIG15
33	K30 (VBATT)
34	K30 (VBATT)
35	K30 (VBATT)
36	INPUT SIG10(GENERATOR)
37	OUT HSD3
38	OUT HSD2
39	OUT HSD1
40	INPUT DIG5
41	INPUT RESISTIVE 1
42	INPUT DIG11
43	K15 (INPUT IGNITION KEY)
44	INPUT DIG13
45	INPUT FREQUENCY 2
46	INPUT DIG 17/AN 4-20mA
47	CANH
48	CANL

CONNECTOR

	Manufacturer: J.S.T. Model: 48ZRO-B-1A (connector) Key Code: A Color: Black AMA Code: F24985
	Manufacturer: J.S.T. Model: : SZRO-A021T-MO.64 (female terminal) Conductor (mmq): 0.3 to 0.5 Insulation O.D. (mm): 1.6 to 1.7 AMA Code: F24971.F
	Manufacturer: J.S.T. Model: WPHDP-H-1A-H (dummy plug) Color: Gray AMA Code: F24971.T

Overall dimensions





Strumentazione analogica-digitale,
centraline elettroniche e spie

Analog-Digital instruments,
Electronic Control Board & Indicators

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AZIENDA CON SISTEMA DI GESTIONE
PER LA QUALITÀ CERTIFICATO DA DNV
= UNI EN ISO 9001:2008 =