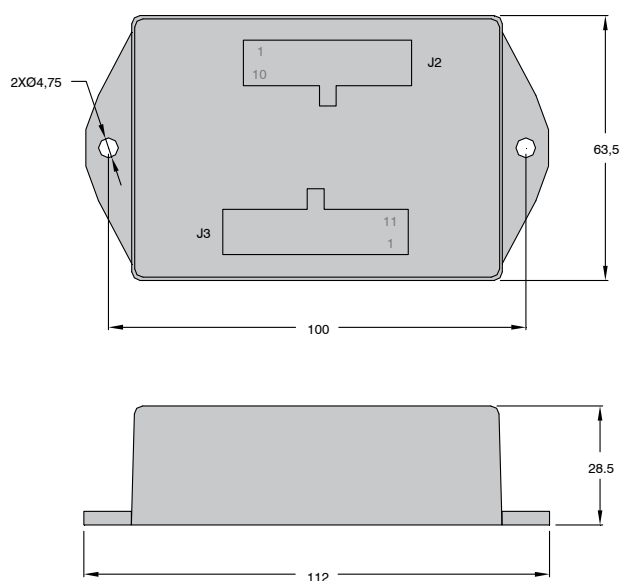


CENTRALINA I/O CONFIGURABILE PER CRUSCOTTI
DASHBOARDS FULLY CONFIGURABLE
CONTROLLER

Model	Inputs	Outputs	CAN	Microprocessors	Standard
IO-MODE	0 - 32	0 - 32	1	1	-
I-MODE	32	0	1	1	-



Modelli Disponibili

IO-MODE: controllore con 32 risorse di I/O totalmente configurabili via software.

I-MODE: controllore con 32 ingressi totalmente configurabili via software.

Models Available

IO-MODE: controller with 32 I/O resources configurable through software.

I-MODE: controller with 32 inputs configurable through software.

Applicazioni	Applications
Collettore di segnali per cruscotti e e loro gestione via rete CAN-bus	Dashboard signals collector and management via CAN-bus network
Modulo slave I/O generico per lettura segnali bordo macchina	Generic slave module for I/O signal management in any machine

Caratteristiche Generali
General Features

Microcontrollore <i>Microcontroller</i>	1 Freescale, 16 bit
Memorie <i>Memory</i>	<i>Internal memories</i> 32 kB Flash 2 kB RAM
Orologio Calendario (RTC) <i>Real Time Clock (RTC)</i>	No
Programmazione <i>Programming</i>	Uso a modalità Slave (CAN L2 / CANOpen) <i>Usable as Slave module (CAN L2 /CANOpen)</i>
Tensione di Alimentazione <i>Power Supply Voltage</i>	8 - 32 V full operational, suitable for machine battery direct connection
Funzionamento durante l'Avviamento <i>Cold Ranking</i>	6,2 V without rest to ISO7637-2
Corrente Assorbita a Riposo <i>Idle Current Consumption</i>	28 mA @ 12 V 15 mA @ 24 V
Massima Corrente <i>Max current</i>	12 A
Protezione Load Dump <i>Load Dump Protection</i>	2 A

Connettività
Connectivity

CAN-bus	2 CAN-bus, 2.OB high speed, (11 or 29 bit identifier), ISO 11898-2 compliant
SERIAL PORTS	-
LIN BUS	-

Specifiche di Funzionamento
Ratings

Temperatura di Stoccaggio <i>Storage Temperature</i>	Da - 35 °C a +85 °C (da - 31 °F a +185 °F) <i>From - 35 °C to +85 °C (from - 31 °F to +185 °F)</i>
Temperatura di Funzionamento <i>Operating Temperature</i>	Da - 25 °C a +70 °C (from -13 °F to +158 °F) <i>From - 25 °C to +70 °C (from -13 °F to +158 °F)</i>
Grado di Protezione <i>Sealing</i>	IP20

Specifiche Meccaniche
Mechanical Specifications

Contenitore <i>Housing</i>	ABS (type FLXT 2535) PA6 - GBF30
Connettore <i>Connector</i>	1 x 18 and 1x20 poles minifit Molex
Valvola in Goretex <i>Goretex Valve</i>	No
Dimensioni <i>Dimensions</i>	112 x 63,5 mm (IO-MODE) 112 x 28,5 mm (I-MODE)
Peso <i>Weight</i>	100 g
Installazione <i>Installation</i>	Orizzontale/verticale, 2 viti <i>Horizontal/vertical, 2 screws</i>

**Caratteristiche Ingressi/Uscite
Inputs/Outputs Configuration**

		IO-MODE	I-MODE
Ingressi/uscite Multifunzione Multifunctional Inputs/outputs	<i>Software configurable:</i> - Analog input 0 - 5 V, 10 bit - Digital input high side - Digital output low active	17	17 (only input)
Ingressi/uscite Multifunzione Multifunctional Inputs/outputs	<i>Software configurable:</i> - Analog input 0 - 5 V, 10 bit - Digital input high side - Digital output low active - PWM output low side	5	5 (only input)
Ingressi/uscite Multifunzione Multifunctional Inputs/outputs	<i>Software configurable:</i> - Analog input 0 - 30 V, 10 bit - Digital high side input - Digital low active output	6	6 (only input)
Ingressi/uscite Multifunzione Multifunctional Inputs/outputs	<i>Software configurable:</i> - High side digital input - RPM input - Low side digital output	4	4 (only input)
Ingressi Multifunzione Multifunctional Inputs	<i>Software configurable:</i> - Analog input 0 - 5 V : 12 bit - Analog input 0 - 20 mA: 12 bit - High side digital input	0	0
Ingressi Multifunzione Multifunctional Inputs	<i>Software configurable:</i> - Analog input 0 - 5 V : 12 bit - Analog input 0 - 30 V: 12 bit - High side digital input	0	0
Ingressi Multifunzione Multifunctional Inputs	<i>Software configurable:</i> - Analog input 0 - 5 V : 12 bit - Analog input 0 - 2500 Ω: 12 bit - High/low side digital input	0	0
Ingressi/uscite Multifunzione Multifunctional Inputs/outputs	<i>Software configurable:</i> - High side digital input - Low side digital output	0	0
Ingressi RPM Input RPM	RPM high side input (1 -12kHz)	0	0
Uscite PWM Output PWM	High side PWM output (50-500Hz)	0	0

**Standard Applicati
Applied Standards**

EMC standards by 89/336 CE CE Mark – EMC (Emissioni/Immunità) CE Mark – EMC (Emission/Immunity)	EN 61000 - 6 - 4 (2006) EN 55011 (RF Emission) EN 61000 - 6 - 2 (2005) EN 61000 - 4 - 2 (Electrostatic Discharge) EN 61000 - 4 - 3 (Radio Frequency) EN 61000 - 4 - 4 (Burst) EN 61000 - 4 - 6 (Conducted disturbance)
Standard Sicurezza Secondo IEC 62061 Safety Standard according to IEC 62061	
• Safety Integrity Level SIL IEC61058 (SIL)	-
Standard Sicurezza Secondo ISO 13849-1 Safety Standard according ISO 13849-1	
• Mean Time To Failure (MTTF):	IO-MODE: 192,57
• Mean Time To Dangerous Failure (MTTFd):	IO-MODE: 385,13
• Category	IO-MODE, I-MODE: 1