

SmaRT BU-916F-AI2

Features

- ✓ 900MHz Spread Spectrum Technology
- ✓ Sixteen FET Outputs/Inputs, Two Analog Inputs
- ✓ Dual connector interface for ease of wiring
- ✓ Diagnostic LED outputs
- ✓ Compact design
- ✓ Weatherproof



The SmaRT™ BU-916F-AI2 features sixteen FET, high side switching outputs or switch-to-ground digital inputs, and two 0-5V analog inputs. The versatile, programmable digital inputs can be customized by Cervis to fit specific user applications.

The BU-916F-AI2 accepts a broad range of input power with operating voltages ranging from 7VDC to 32VDC. The rugged weatherproof enclosure allows the unit to operate worry free in harsh weather conditions. Two unique styles of connecting cables are available; both weatherproof 12-wire cables with each cable offering the optional protection of an easily replaceable blade-type fuse.

SmaRT™ base units feature seamless association to a SmaRT™ hand-held unit without the need to open the case. Using Direct Sequence Spread Spectrum (DSSS) wireless technology at 900MHz, the base unit provides a robust link with a SmaRT Hand-Held Remote in congested radio environments.

Specifications

Radio

Frequency	906-924MHz
License	License Free
Modulation	DSSS
Antenna	Internal

Environment

T_{Operating}	-20°C to 70°C (-4°F to 158°F)
T_{Storage}	-40°C to 85°C (-40°F to 185°F)
Humidity	0 to 100%
Vibration/Shock	IEC60068-2-6 10Hz to 150Hz @ 1.0g peak acceleration 10.0g peak shock acceleration

Indicators

In	Green	–	Input On
Out	Green	–	Output On
Health	Green	–	pulse/sec. OK
TX/RX	Green	–	Receive
	Red	–	Transmit
Power	Yellow	–	OK
	Red/Green	–	Fault

Power

V_{in}	+7 to +32VDC
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Enclosure

Dimensions	119mm x 133mm x 36mm (5.24" x 4.69" x 1.42")
Durability	High Impact Polymer
Mounting Holes	7.4mm (0.29") dia. 102mm center-to-center (4" center-to-center)

Outputs/Inputs

Sixteen DI/D0	FET –Open Drain
Two AI	0 – 5V
Current	4A Per channel 24A Max. total

Assignments

P1-1: +VDC	P1-2: AI 2	P1-3: DI/O 8
P1-4: DI/O 8	P1-5: DI/O 6	P1-6: DI/O 5
P1-7: DI/O 4	P1-8: DI/O 3	P1-9: DI/O 2
P1-10: DI/O1	P1-11: RX	P1-12: –VDC
P2-1: DI/O 16	P2-2: DI/O 15	P2-3: DI/O 14
P2-4: DI/O 13	P2-5: AI 1	P2-6: umbilical
P2-7: +VDC	P2-8: TX	P9: DI/O 12
P2-10: DI/O 11	P2-11: DI/O 10	P12: DI/O 9

P1 and P2 Cable Wiring

