Universal Single Sensor Control Box for all Cerlic X-type Sensors

■ **Multiple functions**
- Supports one Cerlic X-series sensor

■ **Easy to use**
- Simple three-button panel
- User friendly software
- Field upgradeable

■ **Sturdy design**
- Built-in heater for outdoor installations
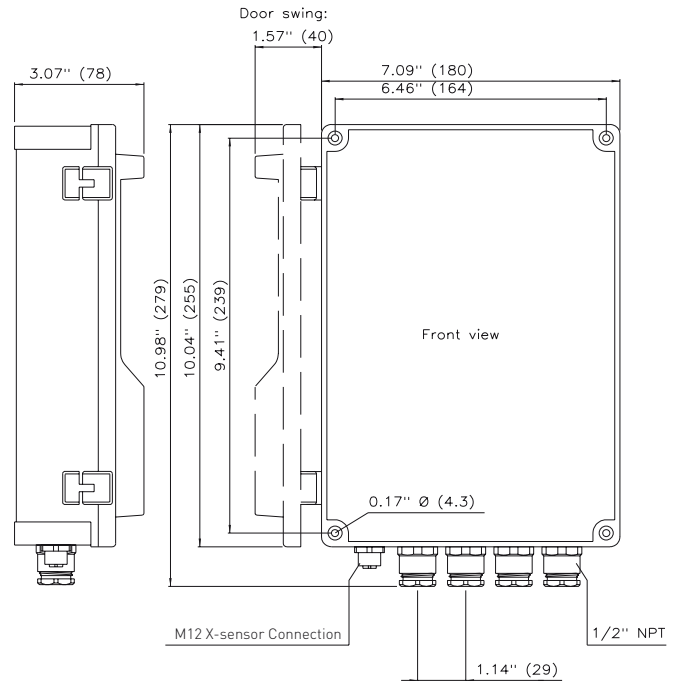- ½" npt connections

■ **Plug & play**
- Easy installation of sensor from X-series

The BB1 is a powerful control box that can support one sensor from the X-series, measuring O2X dissolved oxygen, ITX/ITX-IL suspended solids, CBX sludge blanket, pH, ORP, FLX open channel flow and CTX flow thru suspended solids meters. Weighing less than 3 lbs (1.4 kg), the BB1 is distinguished by a three-button panel used to navigate the intuitive software. The plug & play capabilities of the BB1 ensure an easy installation. Calibration is performed in just a few simple steps. The unit is designed with cutting-edge digital technology and software, making BB1 easily upgradeable in the field and ensuring that the customer has the latest software revisions. The control box comes standard with two 4-20 mA outputs. It also features an expansion slot for two additional mA outputs or digital protocol card for Profibus DP communication. The self-maintenance features of the BB1 further enhance its value in the plant. A built-in heater protects the unit against cold weather conditions. Relay output in the BB1 can be used for alarm or to provide a pulse for automatic cleaning. Output signals are held constant during cleaning cycle at the value prior to starting of the cleaning cycle.

Technical specifications

Weight	2.8 lbs (1.3 kg)
Supply Voltage	85 - 250 V 50 - 60 Hz
Power Usage	20 W / (0.2 Amps)
Ambient temp	-4...131 °F (-20...+ 55 °C) (built-in heater)
Enclosure	NEMA 4X (IP 65)
Connected sensor	Displayed on screen at start-up & type
Output signal, Analog	Two 4-20 mA, galv. isolated, 450 ohm
Digital	Profibus DP (option)
Alarm/cleaning	One relay, selectable function
Connections	½" npt or 0.3-0.45"Ø compression fittings
Sensor cable	33ft (10m) length
Max length	330ft (100m) - 10 cables
Options and accessories	Profibus DP communication card Mounting plate with sun screen for wall or handrail mounting Solenoid valve for flushing

Door swing: 1.57'' (40)

3.07'' (78)

7.09'' (180)
6.46'' (164)

10.98'' (279)
10.04'' (255)
9.41'' (239)

Front view

0.17'' Ø (4.3)

M12 X-sensor Connection

1/2'' NPT

1.14'' (29)

BB1

Cerlic's product line contains sensors for measuring and monitoring your process. Our instruments are used in municipal waste water & water treatment plants, industrial and pulp & paper process control. The development of our BB2 product line is the result of increasing demand for instrumentation that is reliable, accurate and durable.