



**Rugged, IP69K-rated MPIS® Stainless Steel Distribution Box, with fast, secure M12 Ultra-Lock® connections, withstands corrosive, high-pressure wash-downs to minimise downtime in Food & Beverage and other sanitised plant-floor applications**

The food and beverage manufacturing industry must adhere to strict sanitation regulations; plant automation equipment must inhibit bacteria growth, be securely sealed to protect against regular high-pressure wash-downs and resist corrosion from harsh chemicals.

Totally encapsulated in stainless steel and featuring Molex’s patented Ultra-Lock® connectors, the MPIS® (Multi-Port Interconnect System) offers a robust, pre-wired molded distribution box solution for Food & Beverage manufacturing and other industries requiring perfect hygiene such as pharmaceuticals and personal care manufacturing.

Ultra-Lock® connectors are designed to withstand vibration and mechanical shock in the harshest environments that can lead to intermittent signals, false data and improper sequencing causing downtime on a production line. Less downtime means better productivity. For additional information visit: [www.molex.com/link/ultralock.html](http://www.molex.com/link/ultralock.html)

**Features and Benefits**

Multi-port interconnect system (MPIS®)

Molded, pre-wired distribution box that saves wiring time and prevents mis-wiring for applications with a high-density of input or output connections

Fully encapsulated, smooth-surfaced 316 stainless steel housing

Robust solution resistant to liquids, including corrosive chemicals  
Helps to prevent bacterial growth by limiting the areas where it can collect

M12-compatible Ultra-Lock® Connection System

Molex patented mechanical push-to-lock technology enables simple, fast and secure operator-independent connections each time: accepts standard threaded M12 connectors

Ultra-Lock® connection with IP69K-rated industrial-strength seal

Withstands high-temperature, high-pressure plant sanitation wash-downs up to 1500 psi  
Distribution box can be situated on the plant floor

EPDM (ethylene propylene diene monomer – rubber) O-rings

Provides resistance to caustic wash-down solutions. EPDM withstands chemicals better than Viton O-Rings which are used in most standard M12 connectors

8 dual-wired I/O ports

Ability to connect up to 16 sensors (2 per port) to one distribution box

LED double-status indication per port

Allows two sensors per port to be monitored

Integrated home run cable

Complete distribution box assembly complies to Food & Beverage design standards

**Brad® MPIS® Stainless Steel Distribution Box**

120119 Distribution Box, Ultra-Lock® (M12), Stainless Steel



Brad® MPIS® Stainless Steel Distribution Box



M12-Compatible Ultra-Lock® Connections

## Markets and Applications

### Industrial Automation

### Food and Beverage

Manufacturers of food and beverage production machines

### Pharmaceuticals

Manufacturers of pharmaceutical production machines

### Personal Care

Manufacturers of personal care production machines

### Other Markets that adhere to strict sanitation regulations



Food and Beverage Production Lines



Sanitised Production Lines

## Brad® MPIS® Stainless Steel Distribution Box

## Specifications

### REFERENCE INFORMATION

Voltage: 10 to 30V DC

Amperage:

Module 12A max.

Per port 4A max.

Per contact 2A max.

Ports: 8

Dual wired

With LED (PNP)

Sensor/Actuator Connectors: M12 5 pole

Locking System: Screwing or Ultra-Lock®

Degree of protection: IP67, IP69K

Ambient Temperature

Box: -5 to +80°C

Cable: for flexible installation -5 to +80°C  
for fixed installation -40 to +90°C

Housing Material: Stainless steel 1.4404

Contacts: Brass, gold plated

Contact Insert: PBT

O-Ring: EPDM

### HOME RUN CABLE

Length: 10m

Cable Diameter: 11.60mm

Cable Material: PVC

## Ordering Information

Order No.	Engineering No.	Cable Length	Housing Material
120119-0042	BTS805P-FSE-05	5m	Stainless steel
120119-0043	BTS805P-FSE-10	10m	
120119-0046	BTS805P-FSE-15	15m	

### Use with:

M12 Closure Cap: Black: 120358-0030 Yellow: 120309-0376

Cordsets: Series 120079, 120080, 120065, 120066

Receptacles: Series 120070, 120084

