



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

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

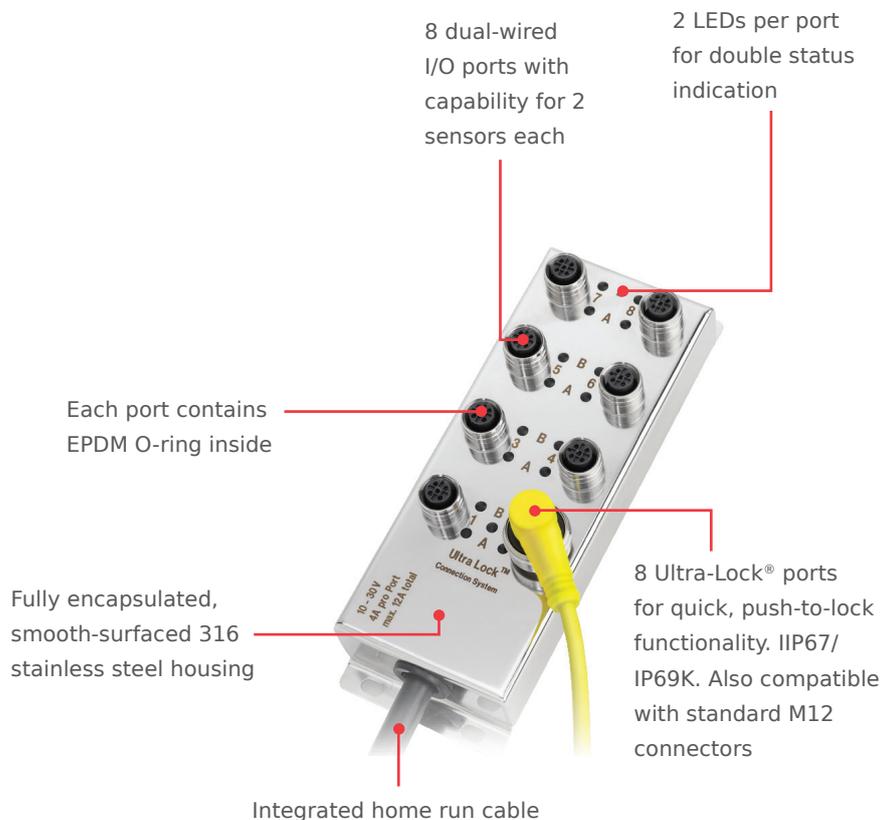
Contact Insert: PBT

O-Ring: EPDM

HOME RUN CABLE

Cable Diameter: 11.60mm

Cable Material: PVC. AWM Style 2464



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

www.molex.com/link/ultralock.html