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Rugged, IP69K-rated MPIS Stainless Steel Distribution Box with M12 Ultra-Lock™ connectors, for fast and secure connections, withstands corrosive, high-pressure wash-downs to minimise downtime in food and 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. An MPIS (multi-port interconnect system) is a molded, pre-wired distribution box that saves wiring time and prevents mis-wiring for applications with a high-density of input or output connections.

Totally encapsulated in stainless steel, the Molex MPIS offers a robust distribution box solution for food and beverage manufacturing and other industries requiring perfect hygiene such as pharmaceuticals and personal care manufacturing.

The system uses Molex's patented push-to-lock Ultra-Lock™ connectors which incorporate a unique radial-seal and mechanical-locking design to deliver unsurpassed performance. The technology provides a simple, fast and secure operator-independent connection each time.

Ultra-Lock connectors are designed to eliminate connector-related intermittent signals in the harshest environments including vibration and mechanical shock that 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

Brad® MPIS

Brad® MPIS

Features and Benefits

Fully encapsulated, smooth-surfaced 316 stainless steel housing	Helps to prevent bacterial growth by limiting the areas where it can collect Resistant to corrosive chemicals
M12-compatible Ultra-Lock™ Connection System	Molex patented 'push-to-lock' technology that enables fast, easy installation without turning the coupler/ radial O-ring seal design; accepts standard threaded M12 connectors
Ultra-Lock™ connection has 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-ring	Provides resistance to caustic wash-down solutions. EPDM withstands chemicals better than Viton O-Rings which are used in most standard M12 connectors
8-port dual-wired I/O	Ability to connect 16 sensors to one distribution box
LED double-status indication per port	Allows two sensors per port to be monitored
Integrated home run cable with FDA compliant jacket	Complete distribution box assembly complies to FDA material and design standards

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Markets and Applications

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

Specifications

REFERENCE INFORMATION

Voltage: 10 to 30V DC
Amperage:
    Module 12A
    Per port 4A
    Per contact 2A
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: -30 to +80°C
 Cable: for flexible installation -5 to +80°C
       for fixed installation -40 to +90°C
Housing Material: Stainless steel 1.4404
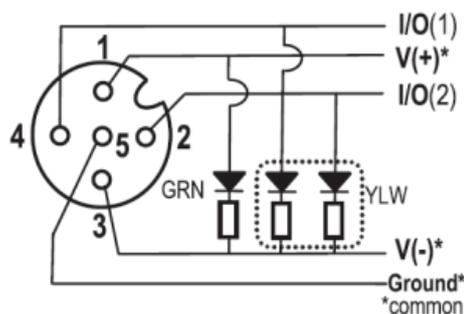Contacts: Brass, gold plated
Contact Insert: PBT
O-Ring: EPDM

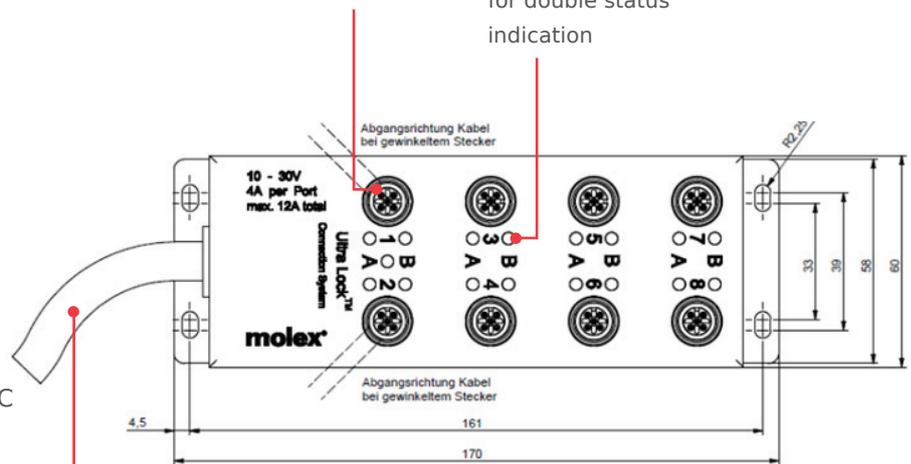### HOME RUN CABLE

Length: 10m
Cable Diameter: 11.60mm
Cable Material: PVC (FDA compliant)

8 dual-wired I/O ports with capability for 2 sensors each

2 LEDs per port for double status indication

Integrated home run cable with FDA compliant jacket

Each port contains EPDM O-ring inside

Fully encapsulated, smooth-surfaced 316 stainless steel housing

8 Ultra-Lock™ ports for quick, push-to-lock functionality. IP67-rated. Also compatible with standard M12 connectors

Note: Molex reserves the right to delay or cancel production of the depicted product without additional notice. Please contact your Molex customer service representative for product availability.

www.molex.com/link/ultralock.html