LARSON ELECTRONICS®

INSTALLATION OPERATION & MAINTENANCE SHEET



HLO-EX-20A-4P5W-208Y.120

Receptacle only, 20 A
For Hazardous and Corrosive Applications

Please read this entire document before beginning any work.

1. Safety Instructions

Installation and maintenance of these plugs and receptacles should only be performed by skilled and experienced personnel in accordance with the National Electrical Code (NEC) (NFPA 70) or the Canadian Electrical Code (CEC) (CSA C 22.1) and any local regulations which relate to hazardous (classified) locations.

CAUTION:

- Disconnect power supply before installing or servicing these plugs and/or receptacles.
- Modifications to this product is not permitted.
- Operate only undamaged and clean plugs & receptacles with observations of the operating parameters in section 2.
- For a Class I Zone 1 conduit installation, conduit seals are required, refer to NEC 505.16 (B) (1). For any other cable or conduit installation NO seals are required.
- Use only approved wiring methods for the location, with the associated conduit/cable fittings.
- The receptacle is suitable for use on a circuit capable of delivering not more than 10,000 rms symmetrical amperes, 600V maximum, when protected by properly sized Class J fuses.

2. Technical Data

Please refer to the technical date on the nameplates.

2.1 Certification:

NEC FM APPROVED
Class I, Zone 1 & 2, AEx de IIC T*
Class I, Div. 2, Groups ABCD
Class II, Div. 1 & 2, Groups EFG; Class III

CEC CSA
Class I, Zone 1 & 2, Ex de IIC T*
Class I, Div. 2, Groups ABCD
Class II, Div. 1 & 2, Groups EFG; Class III

Ex
II 2 G EEx de IIC T*
II 2 D IP 66, T60°C at Ta ≤ 40°C
or T75°C at Ta ≤ 55°C
With I.S. Auxiliary Contact(s)
II 2 G EEx de [ia] IIC T*

*Temperature Class T6 at Ta ≤ 40°C, T5 at Ta ≤ 55°C.

2.2 Ambient temperature range: -30°C to +55°C.

2.3 Storage temperature range: -55°C to +100°C.

2.4 Environmental protection: IP 66 / Type 3, 4, 4X. Covers must be tight when plug is not inserted to maintain environmental protection. Observe the labels on the plug and receptacle.

3. Receptacle Installation

3.1 Enclosure mounting

Securely mount the receptacle in a vertical position using four 1/4" (6 mm) screws and suitable washers. Dimensions are marked on the back of the receptacle housing.

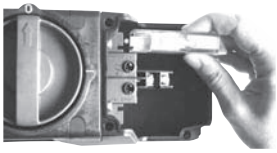
3.2 Conduit/Cable Installation

For conduit installation, connect rigid conduit to the hub and avoid misalignment. For cable installation, connect a listed cable fitting. Conduit/cable fitting should not be tightened more than 50 ft-lbs (68 N-m) of torque.

3.3 Wiring

Open the terminal cover and connect the supply conductors. If Ta is ≤ 45°C, use 75°C wire; if Ta is > 45°C use 90°C wire. The terminals accept up to two wires which are 14 through 8 AWG per terminal. Allow proper length for bending and cut the conductors to length. Strip the conductor insulation 1/2" (12 mm) from the end. Insert the conductors into the appropriate terminals which are marked to correspond with the markings inside the plug. Torque all terminal screws to 16 in-lbs (1.8 N-m); including all unused terminals.

3.4 Installation of Auxiliary Contact Block(s) (optional)



One or two blocks, either for I.S. or non-I.S. circuits can be installed by snapping them into either side of the terminal block. These contact blocks also can be retrofitted and must be installed according to IOM Sheet 85 706 07 30 0. See Parts and Accessories.

3.5 Installation of Additional Entries

Top and side entries can be installed by punching through hole(s) 1 3/8" nominal for 1" NPT. For mounting use the 1" mounting kit. The kit contains one brass bonding plate, two locknuts with two 1" NPT thread-ed holes and one bonding jumper with connection screw. Insert entry fitting through the enclosure, tighten into the brass plate and secure with locknut. Connect the bonding jumper to the terminal marked. A second 1" NPT Bott⏚Fitting can be installed by taking out the close-up plug and installing a 1" NPT fitting with locknut instead. See Parts and Accessories.