



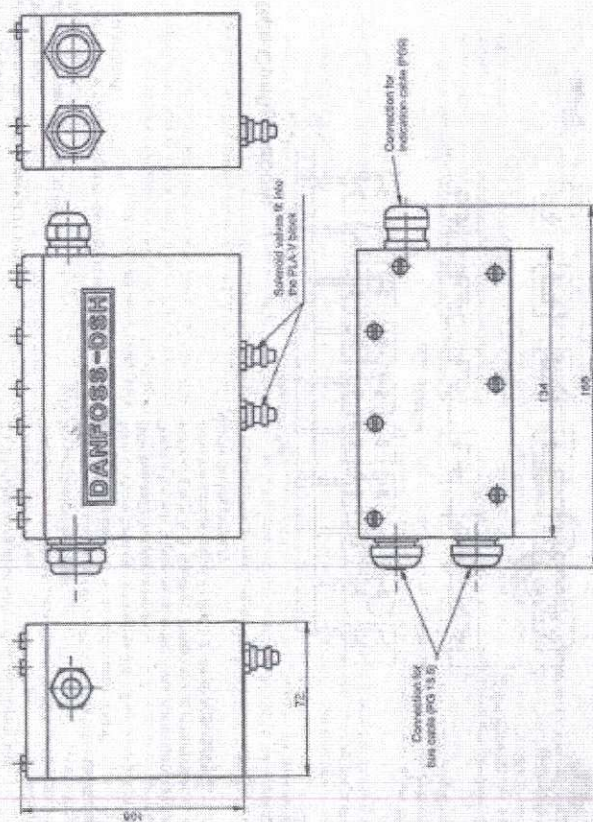
PLA-E IP68

PLS Product Programme

Communication Block for PLA-V on Actuator

A1

Main Dimensions:



All dimensions in mm.

Materials:

Housing and cover : R35
 Screws, nuts (nuts), rivets : Stainless steel
 and brackets : NBR
 Seals : Silicone elastomer
 Sealing coat : Approx. 4.0 kg
 Weight :

Cable Gland Data:

Enclosure rating : IP68
 Cable outside diameter : 7-10 mm
 Thread : PG 9
 Cable outside diameter : 11-15 mm
 Thread : PG 13.5
 Material : Nickel plated brass
 Sealing material : Perbunan N.



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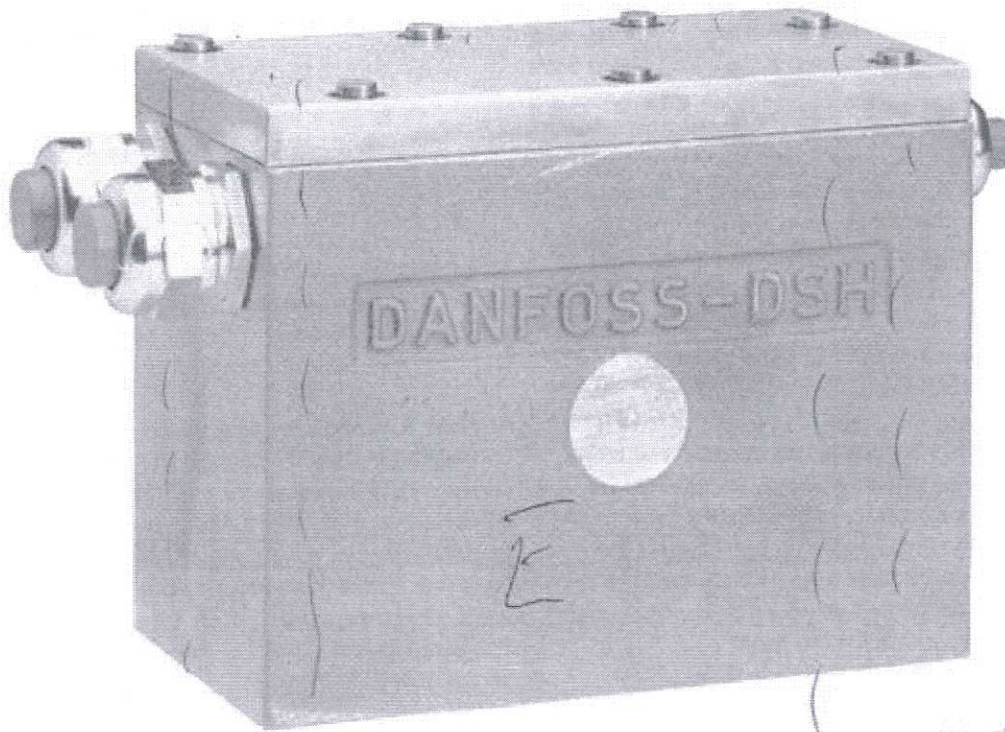
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PLA-E IP68

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The company policy aims at continuous improvement of the products and therefore all rights to change the specifications without notice are reserved.

General Description:

The PLA-E contains electronic circuits for control of PLA-V and for communication between the PLA-E and the PLB busmaster. The PLA-E is always mounted on the PLA-V. A shielded 4-wire cable is used for linking all PLA's in the system together, and finally connect them to the busmaster PLB. Two wires are used for communication and two wires for power supply to the solenoid valves and the electronics. Two cable glands are mounted in the block for in- and outgoing bus cable as well as marked terminals for terminating the cables, which makes the use of junction boxes unnecessary. Indicator, either on/off or analog, can be connected to marked terminals through a third cable gland.

The most important function of the PLA-E block is to control the two built-in solenoid valves, which open and close the actuator by operating the directional valve in the PLA-V block. The electronics also ensure that the actuator/valve can be stopped in the correct mid-position by de-energizing the solenoid valves after a specified operating time, or when actuator/valve has reached its required position.

The communication part in the PLA-E currently returns replies to the busmaster PLB about the status of the unit, such as valve position, supply voltage, hydraulic pressure (option), and whether actuator/valve reaches its position during the correct travel time and retains this position in idle state.

If there is a possibility of cables being short-circuited, and if a short-circuit of the bus cable is critical, the PLA-E can be provided with relay making it possible to disconnect the short-circuited parts of the bus cable, so that the PLA's on the remaining parts of the bus cable are still in service.

The solenoid valves in the PLA-E blocks can be replaced, whereas electronics and print card are embedded in silicone elastomer, protecting mechanically and against moist.