

TECH NOTE

TN-110 – Series 20 Switch Constructions

Series 20 heavy-duty level switches use the Bestact™ snap-action switch element rather than a reed switch. This element is rated for direct inductive switching at load levels that would rapidly destroy a reed switch contact.

The Series 20 stem assembly consists of a hollow stem, a switch actuating rod, one or more float elements, and a control head or relay housing. The stem and rod are cut to length at assembly, allowing any switch position or stem length to be treated as standard.

Two basic construction types are available: the 20-611 single-station assembly for simple high or low control, and the 20-202 two-station assembly for wide-differential pump or valve control. Multi-station assemblies beyond two stations are available on custom order.

The 20-725 Control Head provides a 20 A SPDT relay in a rain-tight, O-ring-sealed enclosure and is the preferred interface for motor loads, large solenoid coils, and contactors. It connects to the switch stem via a set-screw connector.

Spare parts for Series 20 are stocked as individual components. Custom assemblies can be assembled or repaired in the field in five to ten minutes using standard hand tools.

Series 20 vs. Series 10

Use Series 20 when the load is inductive (motors, solenoids, contactors) or when direct switching of loads up to 120 VA at 240 VAC is required. Use Series 10 or 15 for resistive loads (lamps, logic inputs, LEDs) where lower cost and smaller size are priorities.