

PROGRAMMABLE CONTROLLER COMPONENT WITH ASSEMBLY ALIGNMENT FEATURES

ABSTRACT

[0045] A programmable logic controller assembly for facilitating assembly of a programmable logic controller is provided. The programmable logic controller assembly includes a bottom housing that has a base, a first plurality of elongate alignment features extending from the bottom housing in a direction transverse to the base, and a first connection feature. The programmable logic controller assembly also includes a central processing unit that has a circuit board and at least two receptacles through the circuit board configured to engage and slide along at least two of the first plurality of alignment features, wherein the at least two of the first plurality of alignment features are positioned asymmetrically with respect to the base. Further, the programmable logic controller assembly includes an upper housing with a second connection feature configured to slidably couple with the first connection feature and a second plurality of elongate alignment features configured to slidably engage at least two of the first plurality of alignment features, wherein the at least two of the first plurality of alignment features are positioned asymmetrically with respect to the base.

Fig. 4