

PRODUCT SPECIFICATION

MODEL: V181RM-1 AND V181RM-1-230 PRODUCT CODES: 4820 AND 4820-01

DESCRIPTION: REMOTE LONG-DISTANCE

RELAY BOX

 Allows increased distance between remote positioning device and control

Indoor and outdoor use

• Use with 24 VAC pan-and-tilts, scanners or Omniscans

Rugged steel construction

The V181RM-1 Relay Box is a rugged weatherproof unit designed for installations where long cable runs are required. It is activated by a 24 VAC output control, permitting the use of cost-saving low voltage wiring.

The relay box is designed for use with 24 VAC pan-and-tilt drives, scanners and Omniscans and can be used in conjunction with any Vicon 24 VAC-output hardwired control. A model is available with 120 VAC input voltage, V181RM-1, and 230 VAC input voltage, V181RM-1-230. The term V181RM-1 is used to refer to both models unless specifically stated otherwise. For maximum operating distances, refer to Table 1.

NOTES SPEC NO. REV. SEC.

SUPERSEDES PRODUCT SPECIFICATION 133-790 133 198 16



V181RM-1 REMOTE RELAY BOX

TABLE 1 MAXIMUM OPERATING DISTANCES FROM CONTROL TO RELAY BOX

Model Number	Wire Size (AWG)	Maximum Distance* ft (m)
V181RM-1	22 20	6000 (1800) 10,000 (3000)

CONTRACTORS' SPECIFICATION

Control Relay Box

The relay box shall contain five relays with 24 VAC outputs to provide operating voltage to remote positioning devices. The relays shall have contacts rated at 10 amps, 120 V. Input voltage shall be 120 VAC. The relay box shall be contstructed of steel and be for indoor or outdoor use. Dimensions shall not exceed: height, 3.5 in. (8.9 cm); width, 6.0 in. (15.2 cm); depth, 8.0 in. (20.3 cm). The 120 VAC input relay box shall be Vicon's model V181RM-1; the 230 VAC input relay box shall be Vicon's model V181RM-1-230.

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TECHNICAL INFORMATION

ELECTRICAL

MECHANICAL

Control Input Voltage: 24 VAC.

> Line Voltage: 4820: 120 V, 60 Hz.

4820-01: 230 V, 50 Hz.

Line Connector: Compression fitting.

Relay Contact Rating: 10 A at 120 VAC.

> Fuse: 120 VAC: 2 A, 3AG, slo-blo.

230 VAC: 1 A, 3AG, slo-blo.

Vicon part no. 1701-3000-01 (mating Input Connector:

connector 1701-3001-01 supplied).

Vicon part no. 1701-3001-01 (mating **Output Connector:**

connector 1701-3000-01 supplied).

Power Consumption: Pan-and-tilt: 85 W.

Heat Equivalent: 4.8 btu/min (1.2 cal/min).

These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of heat generated will be less and vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an

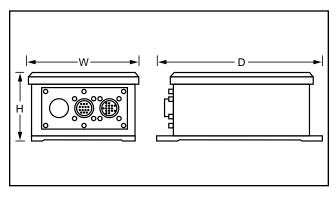
installation.

Maximum

Refer to Table 1. Operating Distance:

Size:

Height (H): 3.5 in. (8.9 cm). Width (W): 6.0 in. (15.2 cm). Depth (D): 8.0 in. (20.3 cm).



9.5 lb (4.3 kg). Weight:

14-gauge steel. Continuously welded Construction:

seams, oil-resistant gasket and adhesive, and stainless steel clamps on cover assure watertight seal.

Gray polyester powder coating finish. Finish:

Safety Raings:

Nema Type 4, Type 4X, Type 12 and Type 13; UL 50 Type 4 and Type 4X; CSA Enclosure 4; IEC 529, IP 66.

Height: 6.4 in. (16 cm). **Shipping Dimensions:**

Width: 8.3 in. (21 cm). Depth: 11.8 in. (30 cm).

10.3 lb (4.7 kg). Shipping Weight:

Shipping Volume: 0.4 ft³ (0.01 m³).

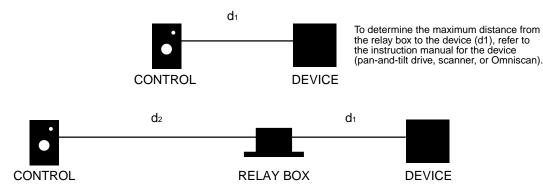


Figure 1 **Operating Distances With and Without Relay Box**