



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 03ATEX2404X

13 DESCRIPTION OF EQUIPMENT

The Crane Cab Radio Control Panel is designed to control the radio, microphone, headset and speakers of a UHF/VHF communications system. It comprises a plastic enclosure that houses a printed circuit board (PCB) and has a front panel with LCD display and switches. The enclosure affords a degree of protection of at least IP20, making it suitable for use in indoor locations. A five way DIN socket provides connection facilities to a microphone or a headset. The power supply to the equipment must be from an intrinsically safe source.

Supply and communications parameters:

Terminal block 1, terminals 1, 2, 9 and 6

$$\begin{aligned}U_i &= 20 \text{ V} \\I_i &= 139 \text{ mA} \\P_i &= 0.46 \text{ W} \\C_i &= 1.46 \text{ } \mu\text{F (at 15.75 V)} \\L_i &= 0\end{aligned}$$

Terminal block 1, terminals 5 and 8 to headset

$$\begin{aligned}U_i &= 14 \text{ V} \\I_i &= 350 \text{ mA} \\P_i &= 1.3 \text{ W} \\C_i &= 0 \\L_i &= 0.8 \text{ mH}\end{aligned}$$

Terminal block 1, terminals 3 and 4 to microphone output

$$\begin{aligned}U_i &= 14 \text{ V} \\R_i &= 968 \text{ ohms} \\I_i &= 400 \text{ mA} \\P_i &= 1.0 \text{ W} \\C_i &= 0 \\L_i &= 0\end{aligned}$$

Separate cables shall be used for the separate power and comms circuit, headset earpiece circuit and mic out circuit.

Date 12 November 2003

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Sira Certification Service

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