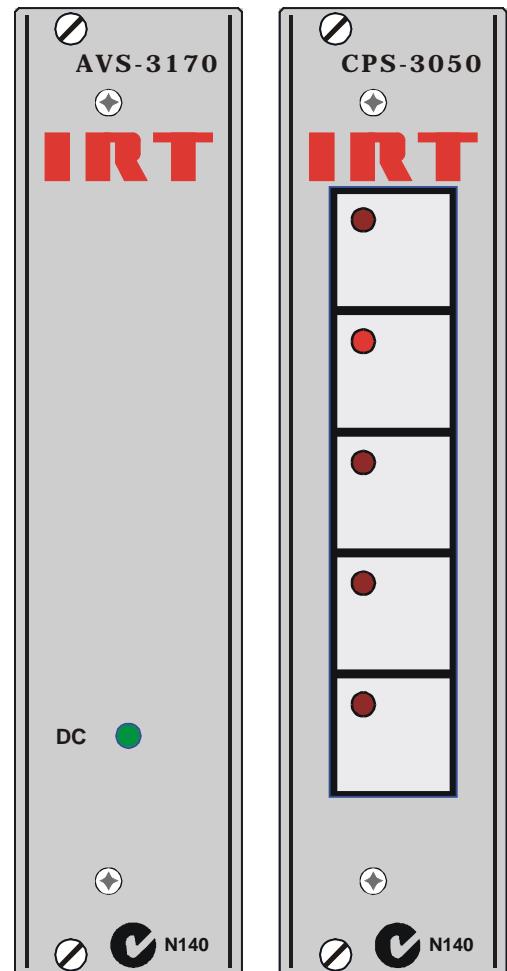


Video, Data & IF 5 x 1 Relay Switcher Type AVS-3170

Features:

- Suitable for video, SDI, ASI, RF, ACS or high speed digital signals.
- May be used for G.703 MPEG transport streams.
- Economical switcher for 2, 8, 34 & 45 Mb/s data signals.
- Termination impedance may be easily changed from 75 Ω to 50 Ω or open circuit.
- Default path from source 1 on power fail.
- Compatible with 3000 series switchers or wire per crosspoint control.



General:

The AVS-3170 5 x 1 relay switcher for video and RF is a passive unbalanced circuit relay switcher.

The relays used are low capacitance reed relays wired to minimise crosstalk from the unused inputs and thus allow the switcher to be used with RF or video signals exceeding 140 MHz.

This also allows the switcher to be used for high-speed digital signals with minimal effect on the pulse risetime.

When used at very high data rates the small amount of high frequency attenuation may be corrected by following the switcher with a data distribution amplifier. This not only provides automatic equalisation, but also source isolation and multiple outputs.

Termination resistors for 75 Ω signals are fitted as standard. These may be easily changed to 50 Ω for RF signals or removed for switching TTL or other signals.

When the switcher is not powered, relay 1 circuit switches input 1 to the output thus providing a secure path during power failures.

The AVS-3170 5 x 1 relay switcher is designed to interface with other IRT Eurocard 3000 series switchers or with the [VG-737](#) video and [AG-738](#) audio program fail detectors.

The switcher may be fitted with a local control panel, type CPS-3050, or with a tally panel, type TPS-3010, for local path indication when the switcher is operated remotely.

The AVS-3170 is built to the IRT Eurocard format and may be mounted in any of IRT's standard Eurocard frames together with other Eurocard modules.

AVS-3170 Technical Specifications

Video inputs:

Number 5.
Impedance 75 Ω terminated when not selected.

Video outputs:

Type Relay switched.
Number 1.
Impedance Designed for use with 75 or 50 Ω signals.
Output impedance will be that of selected input.

Control inputs/outputs:

Type 5 bit BCD coded parallel TTL level
or
individual grounding contacts.
Number 1 input & 1 output.

Performance:

Video crosstalk < -60 dB to 10 MHz.
Relay contact rating 24 Vdc - 100 mA, 100 Vac - 0.3 A.
Power Requirements 28 Vac CT (14-0-14) or \pm 16 Vdc.
Power consumption <95 mA.

Connectors:

Video BNC.
Control Plug in HE14 10 pin dual IDC.

Other:

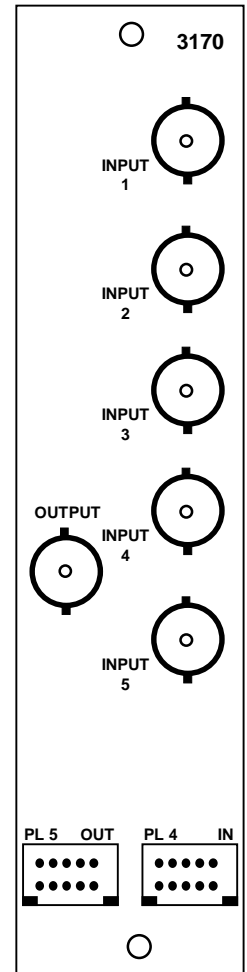
Temperature range 0 - 50° C ambient.
Mechanical Suitable for mounting in IRT 19" rack chassis with input output and power connections on the rear panel.
Finish: Front panel Grey enamel, silk-screened black lettering & red IRT logo.
Rear assembly Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals.
Dimensions 6 HP x 3 U x 220 mm IRT Eurocard.

Supplied accessories

Rear connector assembly including matching connectors for control inputs & outputs.

Optional accessories

CPS-3050 local control panel.
TPS-3010 local tally panel
CPS-9001 remote control panel
TME-6 module extender card



Due to our policy of continuing development, these specifications are subject to change without notice.

Detailed specifications available from:

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