

## OxBox Inline Relayz - HD 3G/HD/SDI/ASI serial digital relay switcher



### Key Features

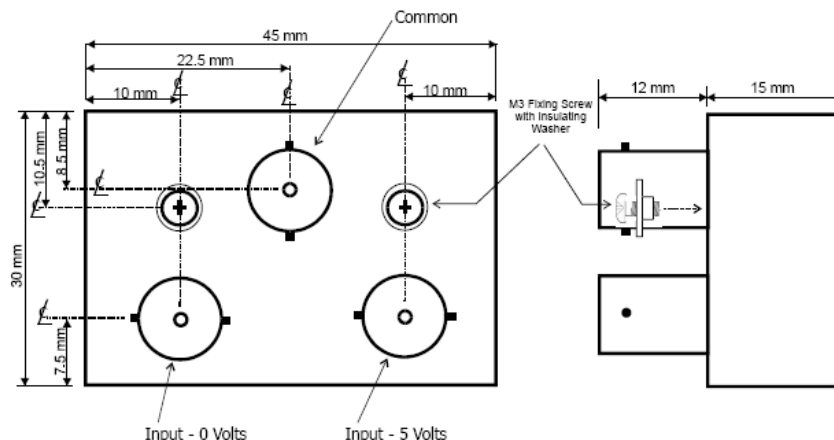
- 2x1 3Gb/s/HD/SDI/ASI relay switcher
- Switches either input to the output
- Supports all data rates up to 3Ghz
- Miniature - 45mm x 30mm x 15mm
- Connectors on one side
- Passive device , requires NO power supply
- Optional rack mount for up to 8 units

The OxBox Inline Relayz products are miniature, serial digital video relays which provide two full broadcast quality outputs from a HD, SDI or ASI input signal. The 2x1 switch will pass data rates up to 3.00Ghz, including HD, (1.485Gb/s), SDI (270Mb/s) and ASI signals. As completely passive devices, they are ideal for switching between two HD/SDI/ASI signals or could be used as an automatic changeover switcher on failure of an incoming signal from a remote source.

The switch is non latching and controlled from two terminals on the rear. By applying +5V DC across the two terminals the switch is triggered between the two inputs. As soon as 5V DV is released the output is driven from the other input.

To achieve the specified performance the input signal should be within the respective SMPTE or EBU specifications and have an impedance of 75 ohms. Both outputs must be terminated with 75 ohms and therefore, if an output cable is not present, an appropriate (SDI) 75 ohm termination should be used. With their miniature size they can be used in confined spaces, such as in OB Vans, Satellite News Gathering vehicles, Fly-Aways, Film crews and even aircraft, racing cars and motorcycles, for example.

The OxBox Inline Relayz, are available in 3G, HD, SDI & ASI versions. Relayz is part of Oxygen DCT's comprehensive Systemz range of video 'glue' products.





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### Specifications

<b>HD-SDI output</b>	
Video Signal	SMPTE 259M, 292M and 344M at 143Mb/s, 177Mb/s, 270Mb/s, 360Mb/s, 540Mb/s, 1.485Gb/s, 3.00Gb/s or DVB-ASI. at 270Mb/s.
Connector	75Ω BNC
Signal level	800mV p-p ±10%
Insertion loss	<0.4dB from DC to 360 MHz
Return loss	>15dB, 0.1MHz to 1485 MHz,
Amplitude roll off	<0.2dB to 360Mhz, < 0.3dB to 1485 MHz
<b>HD-SDI inputs</b>	
Standards	As output
Connector	2 x 75Ω BNC
Signal level	800mV p-p ±10%
Return loss	>15dB
<b>Performance</b>	
Rise/fall time	<220pS (SD), 400pS to 800pS (HD) amplitude 20% to 80%
Jitter	<250pS estimated
<b>Mechanical</b>	
Material	ABS plastic case with high quality metal BNC connectors
Temperature range	0°C to 60°C
Dimensions	45mm x 30mm x 15mm
Weight	32gm

### Ordering Information

OxBox Inline Relayz-3G, 2x1 3Gb/s relay switcher  
 OxBox Inline Relayz-HD, 2x1 HD relay switcher  
 OxBox Inline Relayz-SD, 2x1 SDI relay switcher

### Options

OxBox Inline Relayz- CP- XX, control panel for OxBox Inline Relayz  
 OxBox Inline Relayz- RMK-XX, 19", 1RU rack kit for OxBox Inline Relayz  
 (Please specify type of control panel and physical size when ordering)

The above information is subject to continual change due to product development.  
 Oxygen DCT 2009 E & OE