

OSI-R Current Draw

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Content

Due to differences in current draw and design between the previous addressable BEAM products and the current OSID-R addressable beam detectors, the newer OSID-R products require a dedicated loop and limited device count per loop. The key change is that OSID-R devices are limited by SLC loop current draw restrictions. To determine the maximum number of detectors by loop at 24 VDC nominal, divide the panel's normal operating current by 22mA, and round down current is different depending on voltage, consult the OSID-R datasheet to confirm requirements at other voltages.

This limitation may not have been readily apparent by reviewing the current data sheet, so Honeywell has updated the data sheet to include the below notification.

More specific information is available on the channel brand's data sheet, for example Notifier's FS-OSI-RI:

Maximum Devices per SLC Loop:

The number of OSID-R devices are limited due to SLC current draw restrictions. Current draws listed above must be considered in coordination with any other devices on a circuit. In general, this limits the number of OSID-R detectors to up to 4 detectors per loop on a dedicated circuit on Notifier panels. Any non-beam devices, increased distances or higher gauge wiring on the circuit will decrease available current and total capacity of OSID-R detectors.

Available panel current:

- NFS2-3030: 100ma average operating current
- NFS-320: 150ma average operating current
- NFS2-640: 150ma average operating current
- FireWarden-50X: 100ma normal operating current
- FireWarden-100X: 150ma normal operating current

Please contact your sales manager or technical support with any questions or concerns.