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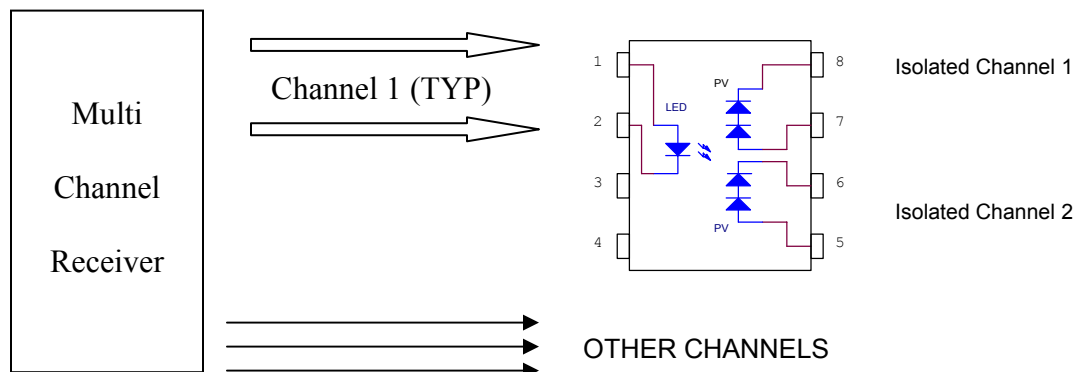
PREVENTING NOISE BY USING DIONICS MOSFET DRIVERS IN TELEMETRY AND REMOTE RF SYSTEMS

NOISE is a serious concern to many users and OEMS involved with the design and applications involving transceivers and telemetry devices. The noise problem is most apparent when such devices are used to remotely operate computers, sensitive electrical and electronic apparatus and machinery. Most sought after is the ability to isolate these driven loads in such a way that there is not a chance for conducted noise to get into supersensitive receivers.

Dionics opto-isolators and optically coupled MOSFET drivers provide an extremely reliable way to achieve very high levels of noise immunity. These devices optically isolate their input signals and generate a pure independent output signal which is used to provide peripheral control functions. Any noise such as switching transients, conducted emissions, and stray RF are thereby blocked from feeding back into the receivers output channel.

A typical application is shown below where a single channel from a receiver is optically isolated from its load. In this instance, 2 separated channels are created from one so both loads are not only isolated from the receiver but also have the added advantage of being isolated optically from each other.

Further information is readily available on our website at www.dionics-usa.com or by contacting us below. Please do not hesitate to contact us if you should require more specific information on these or our other products.



A typical receiver with its channel 1 output connected to a Dionics optical isolator providing 2 separate pure isolated outputs

For further information, please contact our Sales Department at (516) 997-7474
Or email us at sales@dionics-usa.com