

Field of application and characteristics

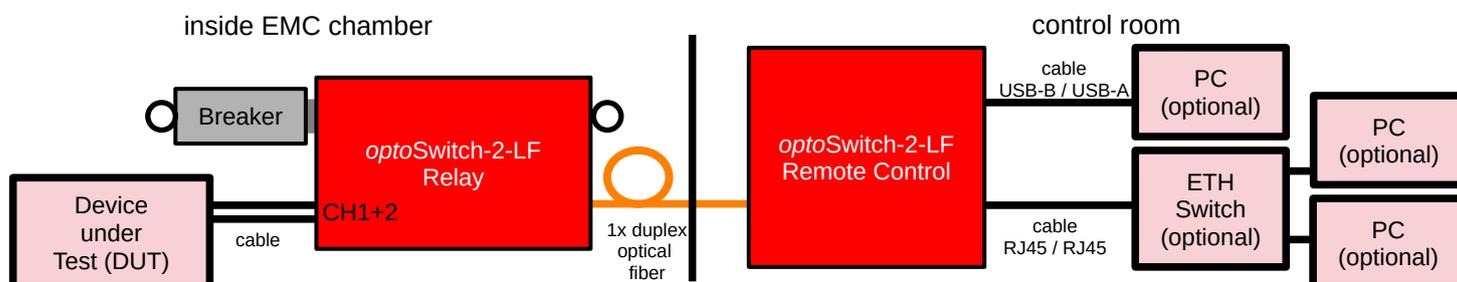
The *optoSwitch-2-LF* 14 V / 30 A system can be used for remotely or locally switching two independent relays. Remote control via push button or software commands.

It is provided with an integrated mechanical breaker switch allows hard disconnection of electrical system in case of undesired movement of the DUT. Typical use cases are 12 V car battery systems with nominal constant loads of up to 20 A. Maximum current allows short term peak loads of up to 30 A for a maximum of 10 minutes.

The system consists of one Relay unit (no batteries) connected to the Remote Control unit with an optical fiber. With the optical transmission and the shielded case, the system is well equipped for EMI and EME tests with automotive standards.



Application



Technical data

Channels:	2 channels
Data rate:	up to 10 Hz
Data direction:	bidirectional
Input:	banana female connector
Output:	banana female connector

Power supply:	Relay: external 15 V power supply Remote Control: external 12 V batteries operating time with fully charged batteries: <ul style="list-style-type: none">• standby approx. 80 h• 1 relay closed approx. 20 h• 2 relays closed approx. 12 h
Power connector:	push-pull 12 mm PP12, Binder 712, on request: push-pull 9 mm PP9
Housing (W x H x L):	anodized aluminum case Relay 80 mm x 80 mm x 140 mm Remote Control 98 mm x 70 mm x 195 mm
Weight:	Relay (no batteries) approx. 920 g Remote Control approx. 520 g
Optical connector:	1x FSMA / duplex multimode fiber 62.5/125 µm, 850 nm

Scope of delivery

- 1x *optoSwitch-2-LF* Relay (no battery)
- 1x *optoSwitch-2-LF* Remote Control
- 1x breaker plug for Relay
- 1x 20 m duplex multimode optical fiber (OM1) FSMA/FSMA
- 1x external battery pack BP120 for Relay with shielded supply cable
- 1x power supply, for Remote Control AC plug types available: A(US), C(EU), G(UK) and I(AUS)

Accessories and options

Optical fiber - types:	OM1: 62.5/125 µm or OM2/3/4: 50 µm on request
Optical fiber - connectors:	FSMA, on request: ST, FC, LC, E2000 (combinations possible)
Optical fiber - lengths:	0.5 m – >50 m (tested)
Optical fiber – feedthrough:	FSMA/FSMA, on request: ST/FSMA, ST/ST, FC/FC
Optical fiber - cleaning:	Fiber optic cleaning set
Protective caps for optical connectors and fibers:	standard protective cap/cover captive cap/cover (connected to the cable or device => does not get lost)
External battery pack BP120:	for run time enhancement of the device in the EMC chamber 4 Ah or 10 Ah (additional high capacity charger needed)

Breaker plug:

