

Field of application and characteristics

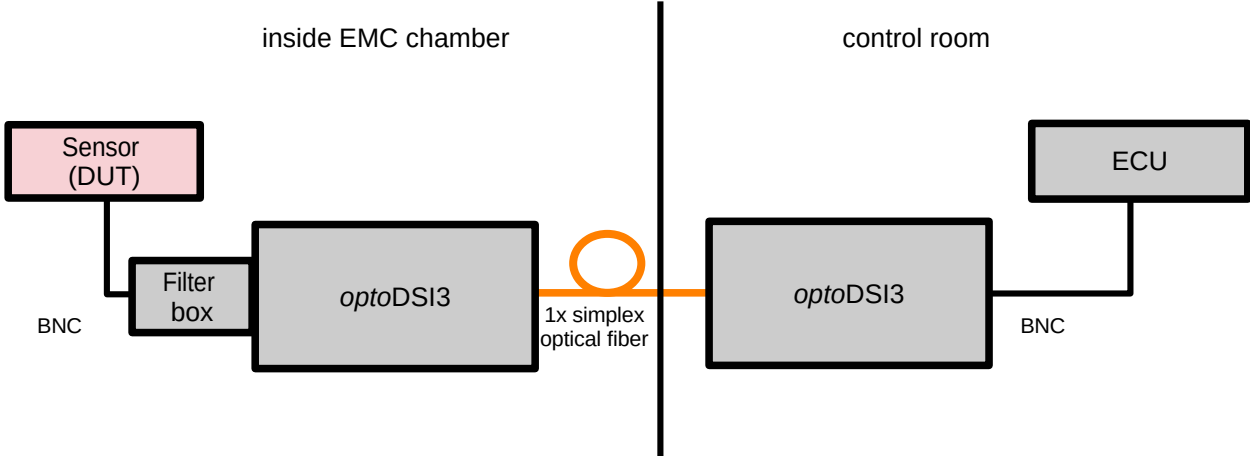
The *optoDSI3* system can be used for the optical transmission of DSI3 signals with transmission rates of up to 200 kbit/s. Offset and gain are adjustable via USB interface and terminal program or Windows software. The system has a bidirectional functionality and is capable of sync pulse transmission for parallel and serial bus setups.

The connected sensor is supplied by the device with the current that is applied to the other *optoDSI3* transceiver by a ECU.

The system consists of two battery supplied transceivers connected to each other 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:	1 channel
Data rate:	up to 200 kbit/s
Data direction:	bidirectional
Input/Output:	BNC
Power supply:	integrated batteries 4 Ah, consisting of 5x NiMH cells, 6 V operating time with fully charged batteries: approx. 8 h operating time can be extended with an external battery pack
Charging connector:	push-pull 12 mm PP12, Binder 712, on request: push-pull 9 mm PP9
Housing (L+W+H):	chromated aluminum case 135 mm x 86 mm x 65 mm

Weight:	Approx. 760 g
Optical connector:	1x FSMA / simplex multimode fiber 62.5/125 µm, 850 nm

Scope of delivery

1x	<i>optoDSI3</i> Sensor
1x	<i>optoDSI3</i> ECU
1x	external DSI3 filter (Box)
1x	20 m simplex multimode optical fiber (OM1) FSMA/FSMA
2x	charger for the integrated batteries, AC plug types available: A(US), C(EU), G(UK) and I(AUS)

Accessories and options

Optical types and connectors:	OM1 multi mode 62,5/125µm FSMA (standard), OM2-5 or single mode fibers, other connectors (ST, FC) on request
Optical fiber - lengths:	0.5 m – >20 m
Optical fiber - cleaning:	Fiber optic cleaning set
Protective caps:	for fiber and device connectors available (SMA, FSMA, ST,...)
External battery pack BP60:	for run time enhancement of the device in the EMC chamber 4 Ah or 10 Ah (additional high capacity charger needed)
Power supply PS75:	for constantly powering the device in the control room