

Mounting instruction for Optocoupler 567

Manufacturer: StandexMeder Electronics GmbH, Robert-Bosch-Straße 4, 78224 Singen, Germany

The optoelectronic coupler of the 567 series serve as galvanic isolation of intrinsically safe and not intrinsically safe circuits within devices which are installed outside an explosive area.

Either the emitter circuit or the detector circuit can be connected with the intrinsically safe circuit.

Do not exceed the maximum allowable power dissipation of the non-intrinsically safe circuit at an ambient temperature range of -40°C to +85°C. Max power dissipation on the emitter side is 400mW and 600mW on the detector side.

Emitter and detector circuit are galvanically isolated at a peak of 375V of nominal voltage. Sum of peak values of both circuits must not exceed 375V.

The optoelectronic couplers are produced in two different versions.

Types 567-51-1-i and 567-70-1-i.

Electrical characteristics (limit values) – Maximum ratings Emitter

	567-51-1-i	567-70-1-i
Reverse Voltage [U_R]	6 V	3 V
DC Forward Current [I_F]	50 mA	45 mA
Power Dissipation (at $T_{amb} = 25\text{ °C}$) [P_V]	100 mW	120 mW
Junction Temperature [t_j]	100 °C	100 °C

Electrical characteristics (limit values) – Maximum ratings Detector

	567-51-1-i	567-70-1-i
Supply Voltage [U_{CC}]	4,5 – 16 V	-0,5 – 7 V
Output Current [I_0]	20 mA	50 mA
Power Dissipation (at $T_{amb} = 25\text{ °C}$) [P_V]	150 mW	85 mW
Junction Temperature [t_j]	100 °C	100 °C

Marking

Date code (according to EN 60062 / 2-digit)

Company label

Type description

Short symbol of the inspection authority

Number of the certificate

Type of protection



II (1) G [Ex ia Ga] II C