# Micro-Switch

Developed and manufactured in GERMANY

NEW!

**Rise and fall times of less than 1 µs!**


# MICRO **INTERRUPTIONS**

Micro-Switch **TOE 9260**

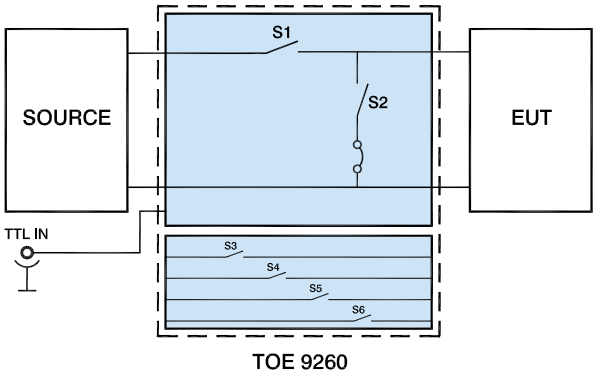
TOELLNER®

# Micro-Switch TOE 9260

## Electronic Switch for micro TOP-interruptions

**The new Electronic Switch TOE 9260 is the first choice for generating micro interruptions in supply voltages. Conforms ideally to LV124/ VW80000 Vehicle Electric System test standards.**

**Depending on the model, currents of up to 100 A can be switched at a rated voltage of up to 60 V.**



TOE 9260

### Special Features

- **Rated voltage** **60 V DC**
- **Rated current** **50 A DC / 100 A DC**
- **Rise and fall time** **< 1 µs**
- **Short-Circuit-protection**
- **Discharge of circuit load**
- **4 signal line switches**
- **Signal Generator Control (TTL level)**

While testing vehicle power systems according to standards, it is necessary to momentarily interrupt supply voltages. This can easily be accomplished and executed with the Toellner Model TOE 9260 Micro Switch, operating between <10 µs, and nearly unlimited duration.

Any voltage source of up to 60 V DC with appropriate current rating can be connected to the input.

Using an external signal generator, the current flow can be interrupted by switch “S-1” on demand. Discharging the load circuit can be accomplished by another internal switch “S-2” during the interruption process of the load current.

Four additional signal line switches (“S-3 thru “S-6”) enable precise switching and interruption of signal lines and control lines in any current flow direction. Control of these switches (“S-3” thru “S-6”) takes place synchronously with “S-1”.

### Technical specifications

| | TOE 9260-50 | TOE 9260-100 |
|---|---|---|
| **Input Voltage** | max. 60 V | max. 60 V |
| **Output current DC** | 50 A | 100 A |
| **Switch-on peak current** | 300 A | 300 A |
| **Rise time / fall time (tr, tf) @ 1 Ω or 10 Ω** | < 1 µs | < 1 µs |
| **Control voltage (trigger)** | TTL-Level, max. ± 20 V | TTL-Level, max. ± 20 V |
| **Signal line switches** | ± 60 V, ± 1 A | ± 60 V, ± 1 A |
| **Rise time / fall time (tr, tf)** | < 0,5 µs | < 0,5 µs |

Developed and manufactured in GERMANY

# Micro-Switch TOE 9260

## General data

| | |
|---|---|
| **Supply voltage** | 90–264 V, 47–63 Hz |
| **Power consumption** | approx. 35 VA |
| **Operating temperature** | 0 °C bis 40 °C |
| **Storage temperature** | -20 °C bis 70 °C |
| **Reference temperature** | 23 °C ± 1 °C |
| **Cooling** | Thermostatically-controlled fan |
| **Dimensions**<br>**(WxHxD )**<br>**(WxHxD with feet)** | <br>224 x 88 x 325 mm<br>224 x 104 x 325 mm |
| **19“ system** | ½ 19“, 2 HU |
| **Weight** | Approx. 4 kg |
| **Housing** | Aluminum / steel |

## Ordering data

| **Micro-Switch** | |
|---|---|
| TOE 9260-50 | 60 V / 50 A |
| TOE 9260-100 | 60 V / 100 A |


## Options / accessories

| **Micro-Switch** | |
|---|---|
| TOE 9260/22 | 0,5 m connecting cable with 1 safety socket, red |
| TOE 9260/23 | 0,5 m connecting cable with 1 safety socket, blue |
| TOE 9521 | 19“ adapter 2 HU, for single installation |
| TOE 9522 | 19“ adapter 2 HU, parallel installation set for 2 units |

**Supplied accessories**

- 1 Instruction manual
- 1 Shorting link / Connecting plug
- 2 connector sockets S 3 – S 6

TOELLNER®

# Our customers

AIRBUS
ALPS
Audi

BOAMBARDIER
BOEING
BLAUPUNKT
BMW
BOSCH
brose
BUGATTI

Continental

DAIMLER
JOHN DEERE
DELPHI
dSPACE
DuPont

EADS
EUROCOPTER

Ferrari
FIAT
Ford
FUJITSU

GENERAL MOTORS
GÖPEL electronic

HARMAN
HELLA

IAV
IBM
Infineon

KMW
KOSTAL

Leica Camera
Linde
Lucas Automotive

MASERATI
MAXIMATOR
Mercedes-Benz
MIT
Motorola
mtu

NOKIA

PORSCHE

Rank Xerox
Rockwell Automation
ROHDE & SCHWARZ
RUAG

SIEMENS
ST Microelectronics

TAKATA
Tektronix
TEXAS INSTRUMENTS
TRW Automotive
Tyco Electronics

University of Hawaii

Valeo
Visteon
VW

Webasto

YAZAKI

**TOELLNER Electronic Instrumente GmbH**
Gahlenfeldstraße 31 · 58313 Herdecke · Germany · Phone +49 (0) 23 30 97 91 91
Fax +49 (0) 23 30 97 91 97 · E-Mail: info@toellner.de · www.toellner.de

TOELLNER®