

## DUELCO TWO-HAND BUTTON TST-3

Dear distributor.

We are pleased to announce that the long awaited TST-3 is ready to be launched. The TST-3 two-hand button, which is replacing the old TST-2 button, has some advantages compared to its predecessor:

- Possible to choose between normal and high sensitivity via DIP-switches
- A calibration is performed at every power up. This eliminates sensitivity problems caused by change of the surrounding temperature
- Unlike the TST-2 button, the TST-3 button does not require a 30 minutes period with operating voltage to reach the optimal sensitivity - an optimal sensitivity is reached instantly due to a constant calibration feature
- Now even more suitable for operators working with working gloves
- Only no force button which has an approval.



Hand sensor keys are indispensable in connection with presses and punching machines for reasons of operator efficiency. The common press buttons already available on the market require a pressure of up to 1 kg and given, for example, a typical 1000 activations per day on a 2-handed relay, this amounts to a daily load on the operator of 2 tons. Something that can lead to injuries and reduced productivity.

Duelcos TST-3 hand sensor key, require only a light pressure and have the added feature of optimal seal which fulfils the requirements of DIN VDE 0470-1.

### ACCESSORIES:

PRB04



### AUTHORITY

TST-3

### BG

Approved

### SAFETY CATEGORY, EN 954-1 / DS/EN ISO 13849-1: 4 PERFORMANCE LEVEL e

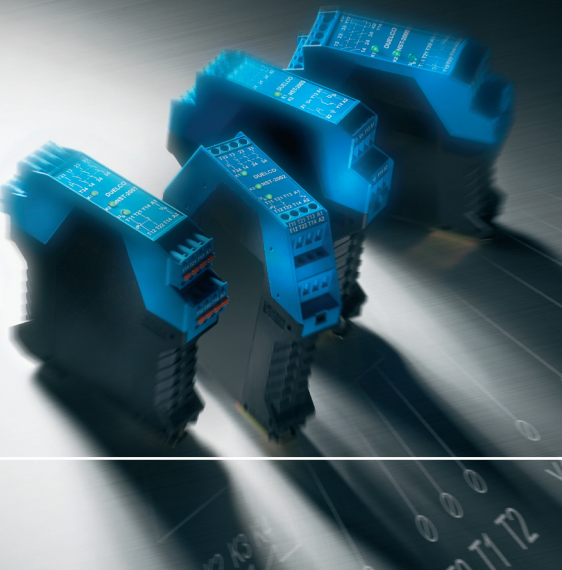
The TST-3 has no independent safety function. The safety level is obtained by connecting the two hand control relay Duelco HR-2001.

PCB3/SD



HR-2001 - NEW  
More info on page 2





# duelco

DISTRIBUTOR NEWS  
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## DUELCO TWO-HAND CONTROL RELAY HR-2001

As you may have seen on page 1, a new two-hand relay has also been developed. The HR-2001 is replacing the old HR-8 and is designed to work with the no force two hand button TST-3.

- Available in both VDC and VAC versions
- Slim-line relay - only 22,5 mm wide
- 2 NO safety outputs
- 1 transistor output or 1 NC status output
- Short circuit monitoring
- Status indication via LEDs
- Safety category 4



**SAFETY CATEGORY,**  
**EN 954-1 / DS/EN ISO 13849-1: 4**  
**PERFORMANCE LEVEL e**

The TST-3 has no independent safety function. The safety level is obtained by connecting the two hand control relay Duelco HR-2001.

**AUTHORITY**  
TST-3

**BG**  
Approved

## DUELCO EXTENSION MODULE EU-2001

The new extension module EU-2001 is replacing the discontinued EU-8. Below please find features and a conversion list (EU-8 -> EU-2001).

- Approved for safety category 4
- Slim-line relay - only 22,5 mm wide
- 4 NO safety outputs
- With or without time delay
- 1 transistor output



| Number   | Description       | Number   | Description           |
|----------|-------------------|----------|-----------------------|
| 42301248 | EU-8 24VDC        | 42023101 | EU-2001F 24VDC        |
| 42302308 | EU-8 230VAC       | 42022003 | EU-2001F 48-240VAC    |
| 42311248 | EU-8S 0,5s. 24VDC | 42023105 | EU-2001F.S 0,5s 24VDC |
| 42321248 | EU-8S 1,0s. 24VDC | 42023110 | EU-2001F.S 1,0s 24VDC |
| 42331248 | EU-8S 2,0s. 24VDC | 42023120 | EU-2001F.S 2,0s 24VDC |
| 42341248 | EU-8S 4,0s 24VDC  | 42023140 | EU-2001F.S 4,0s 24VDC |
| 42351248 | EU-8S 6,0s 24VDC  | 42023160 | EU-2001F.S 6,0s 24VDC |
| -        | -                 | 42023170 | EU-2001F.S 7,0s 24VDC |
| 42300248 | EU-8 24VAC        | 42022201 | EU-2001F 24VAC        |

Note: Versions with detachable terminals (EU-2001D) are also available.

### YOUR CONTACTS AT DUELCO

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