



# Hand Sensor Actuator TST-4

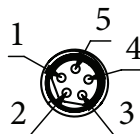
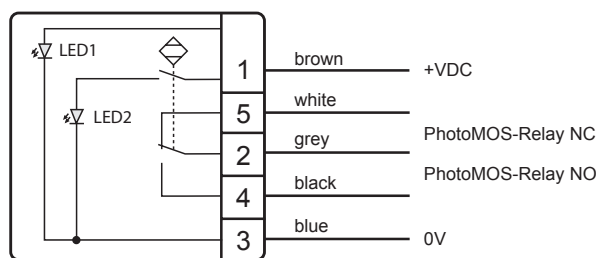
The Duelco hand sensor actuator is an obvious choice  
- especially with a high activation frequency

User's advantages

- Ergonomic
- Low activation force
- Reduces the possibility of injuries
- Increases the productivity
- On/Off indication via LEDs
- Outputs are NO/NC contacts



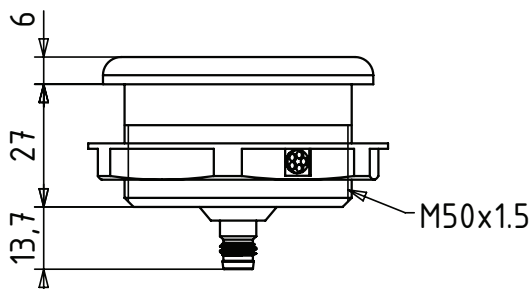
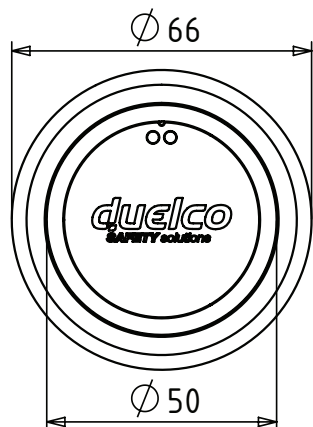
## Connection diagram and connector M8, 5-pole



DS/EN ISO 13849-1:  
Cat. 4 Performance Level e

The TST-4 has no independent safety function. The safety level is obtained by connecting the two hand control relay Duelco HR-2007.

## Dimensions (mm)



## Operation description

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. Duelcos TST-4 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.

The hand sensor keys have therefore won a justified foothold where a high level of activating frequency is required, typically on presses and punching machines. By using Duelco's hand sensor keys, a very high level of ergonomically efficient work practice, and hence optimal working conditions for the operator, is achievable.

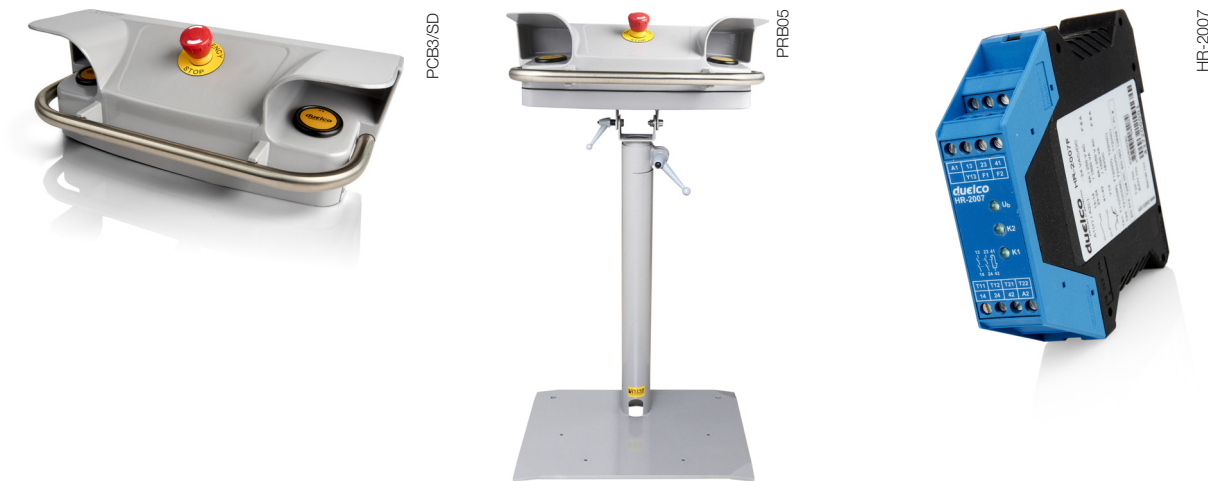
Duelco's hand sensor keys are based on capacitive circuits

with a degree of sensitivity so fine that the operator can activate his hand sensor keys even when using working gloves. Duelco's hand sensor key TST-4 fulfils the requirements according to EN 60204-1 regarding duplication and monitoring, with use together with the Duelco HR-2007 CE-marked according to MD, EMC and LVD

## Technical data TST-4

Electrical data	
Supply voltage (NB! Common Power Supply)	24V DC
Voltage range	± 10%
Frequency (AC-type)	50 ... 60 Hz
Power consumption	~ 10 mA @ 24 V
Contact data	
Contact-allocation	PhotoMOS-Relay NO / NC
Contact load	100 mA
EMC requirements	EN61000-6-3 EN61000-6-2
Mechanical data + various	
Housing material	Polycarbonate
Dimensions, Surface of contact Built-in dimensions	Ø 50 mm Ø 50 mm
Operating temperature	-25 - +70° C
Enclosure rating, Surface of contact	IP 65
Mounting	Nut, M50x1,5 mm

## Accessories:



## Order information:

Description	Article no.
TST-4 24V DC	42000010
TST-4 cable, 2 metres	42000011

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