Contact-Duo-Profile

Functional description of the system

The evaluation electronics monitor the safety strip, which is equipped with a terminating resistor and operates using the closed circuit principle. An amount of current defined by the resistance (8.2 k Ω) flows through the safety strip. When mechanical pressure causes the resistance in the safety strip to drop below 5.5 k Ω , this is recognised as an actuation (evaluation electronics: LED RED). When contact resistance or a broken cable raises the resistance in the safety strip above 11.5 k Ω , this condition is recognised as a broken cable and/or fault (evaluation electronics: LED YELLOW). In both cases, the system stops (evaluation electronics: safety relays K1 and K2 open).



Contact-Duo 3100.0110N

Contact-Duo-Profile	
Article no.	3100.0110N
Material	NBR
Weight	0,546 kg/m
Shore hardness	Conductive mixture: 71 +/-5 Shore A
	Non-conductive mixture: 54 +/-5 Shore A
Interconnection	Series connection electr. max. 10 switching strips
Min. and max. length of the	0.1 m to 100 m
switching strip	
Storage temperature	-10°C to +15°C respectively +25°C (DIN 7716)
Delivery length	20 m
Response time of the evaluation	< 12 ms
electronics	

Certified characteristic data

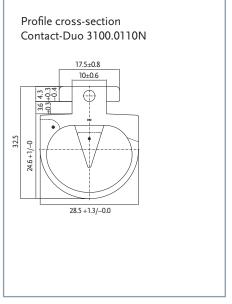
Actuation force	74 N at 200 mm/s
Actuation angle (α)	+/-20°
Ineffective border area	20mm (left/right), 30mm (left/right) with finger safety
Finger safety	yes
Max. operating speed	200 mm/s
Climatic conditions	+5 °C to +55 °C
Level of protection	IP67
Number of switching cycles	> 10,000 switching cycles

Deformation travels

20°C
200 mm/s
74 N
7.4 mm
13.2 mm
3.5 mm*
5.5 mm*

* Only if the sensor wound not deformed permanently.

You can choose any of several different variants for compatible evaluation signals (Category 1/PL c and Category 3/PL e, SIL3).



For dimensions without tolerance particulars, tolerance-free dimensions as per DIN ISO 3302-1 E2 shall apply.

