

# Quadro-Profile

## 3100.6000F

### 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 $\Omega$ ) flows through the safety strip. When mechanical pressure causes the resistance in the safety strip to drop below 5.5 k $\Omega$ , 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 $\Omega$ , 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).

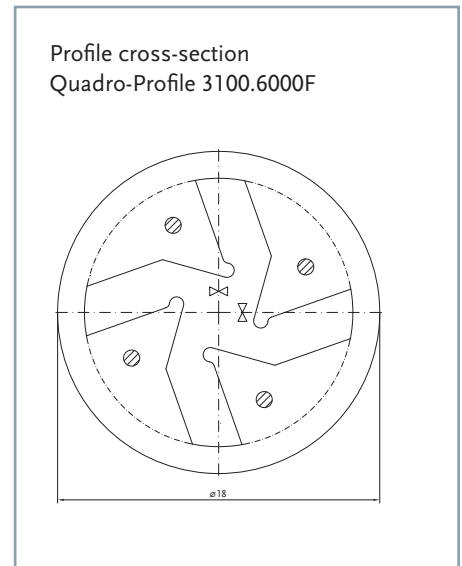


Quadro-Profile 3100.6000F

Quadro-Profile	
Article no.	3100.6000F
Material	EPDM
Weight	0.248 kg/m
Shore hardness	Conductive mixture: 65 +/-5 Shore A Non-conductive mixture: 60 +/-5 Shore A
Interconnection	Series connection electr. max. 10 switching strips
Min. and max. length of the switching strip	0.1 m to 100 m
Storage temperature	-10°C to +15°C respectively +25°C (DIN 7716)
Delivery length	20 m
Response time of the evaluation electronics	< 12 ms

Certified characteristic data	
Actuation angle ( $\alpha$ )	+/-180°
Ineffective border area	40 mm
Finger safety	no
Max. operating speed	200 mm/s
Climatic conditions	-10°C to 55°C
Level of protection	IP67 or IP54 with hole for pressure compensation *
Number of switching cycles	> 10,000 Switching cycles

\* In order to achieve pressure compensation with small strips ( $\leq 2$  m) under extreme temperature differentials, the bottom of the cap of the strip has been pierced (IP54).



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

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