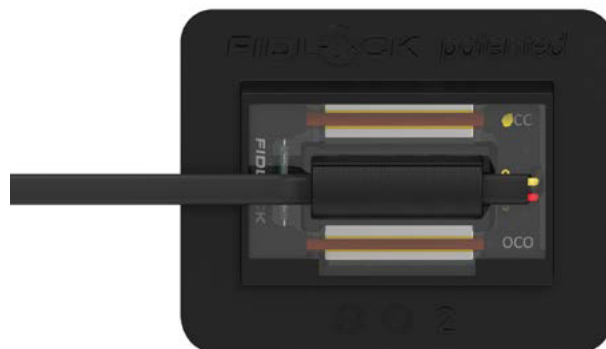


FIDLOCK, as a leader in innovation, presents a new product that offers digital switching of electronics. A small form factor for textile applications featuring the known magnetic closing of FIDLOCK fasteners. The STRIPE X1 female underlay electrified is a digital switch in a tiny and inconspicuous design. The fastener is made of PA6 that can be sewn or welded to textiles. The output signal is also digital (0V/5V) and shows the state of the fastener. The STRIPE X1 female underlay electrified is generally waterproof and available in two basic circuit layouts - Closed Closed (CC) and Closed Open (CO) - the latter being suitable for safety applications. The buckle doesn't transfer current from one side to the other. It is designed as a digital switch, not as a physical one.



Sectors: mobility, workwear, apparel, smart clothes, bags

Article information

The article works with the standard STRIPE X1 male part that needs to be obtained separately. The currently available articles have a cable length of 50cm.

Customization

The cable length is fully customizable, and cable end tinning is available. Additionally, we offer custom lengths of cable ends without cable sheathing. Please contact your contact person for a detailed information and offering.

Fastener properties

Materials: PA6

Colour: black

Storage & operational temperature: 0°C ~ 30°C

REACH, RoHS

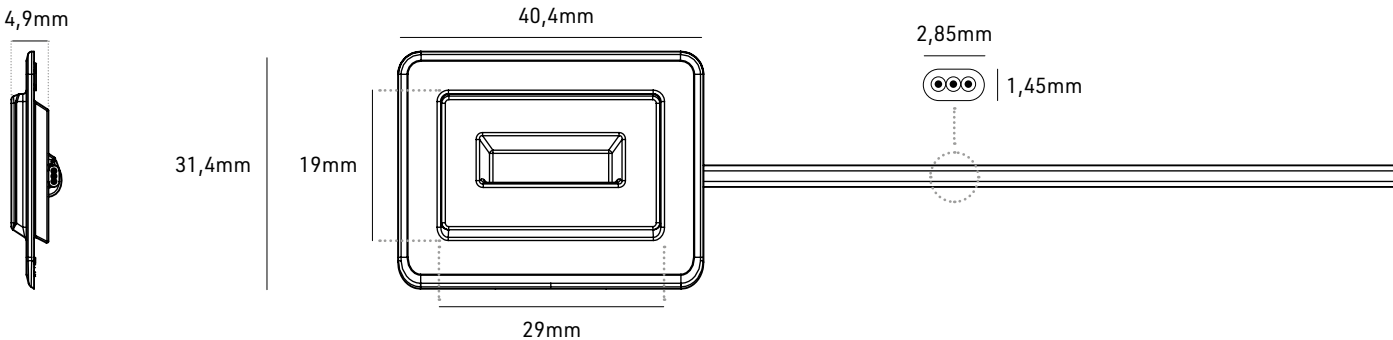
Static breaking load N: N/A (dependent on the carrier material)

Static breaking load kg: N/A (dependent on the carrier material)

Reed Switch - MKA-07101

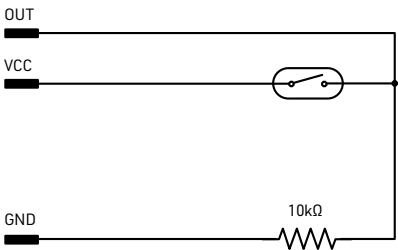
- > Manufacturer: MKA
- > Operation current: 300mA
- > Power: 1W

Drawing



Fastener Closed Closed (CC)

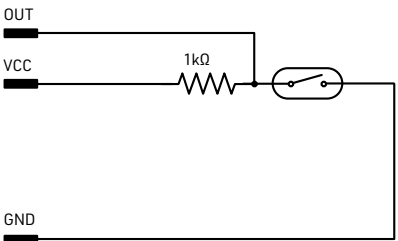
When the fastener is closed, the circuit is closed (5V, high)



Without the magnet for the reed switch, the circuit is normally open (no) – pull-up resistor setup

Fastener Closed Open (CO)

When the fastener is closed, the circuit is open (0V, low) – suitable **for safety applications**



Without the magnet for the reed switch, the circuit is normally closed (nc) – pull-down resistor setup

Cable properties

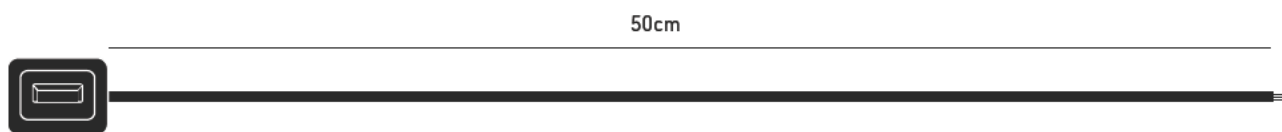
- AWG size: 28
- Resistance: ~ 0,223 Ω/m at 20°C, 68°F
- Minimum bending radius: ~25mm
- Materials: copper, silicone, TPE
- Colour: black
- RoHS, halogen free

Cable pinout

OUT	→	yellow	
VCC	→	red	
GND	→	black	

Samples STRIPE X1 electrified with 500mm cable length

Available in CC & CO version.



ARTICLE NUMBERS

01325-000002 (BLK)	STRIPE X1 female underlay electrified CC
01326-000002 (BLK)	STRIPE X1 female underlay electrified CO

Corresponding STRIPE X1 male part

To have a working system, you need a normal STRIPE X1 male underlay or overlay part, already available in our catalogue. We recommend the STRIPE X1 male underlay rigid variant.

ARTICLE NUMBERS

01362-M00002 (BLK)	STRIPE X1 male underlay
01363-M00002 (BLK)	STRIPE X1 male overlay