

Fact Sheet



Flat Modules

200x100-H0	[BLASMOD200X100H0]	PAGE 3
200x100-H1	[BLASMOD200X100H1]	PAGE 5
200x200-H0	[BLASMOD200X200H0]	PAGE 7
200x200-H1	[BLASMOD200X200H1]	PAGE 9
300x200-H0	[BLASMOD300X200H0]	PAGE 11
300x200-H1	[BLASMOD300X200H1]	PAGE 13
400x200-H0	[BLASMOD400X200H0]	PAGE 15
400x200-H1	[BLASMOD400X200H1]	PAGE 17

Edge Modules

200x160x100E-H0	[BLASMOD200X160X100EH0]	PAGE 19
200x260x100E-H0	[BLASMOD200X260X100EH0]	PAGE 21
400x200x100E-H0	[BLASMOD400X200X100EH0]	PAGE 23

General Information

Installation and Cabling	PAGE 25
Actuation Characteristics (Sensitivity & Dampening)	PAGE 27

AIRSKIN® Module 200x100-H0 [BLASMOD200X100H0]

Product Description

AIRSKIN® Module 200x100-H0 is a pressure sensitive safety sensor. It consists of a soft AIRSKIN® pad with a size of 200 by 100 mm and a mounting structure with magnetic connectors. The total installed thickness is 34 mm and compressibility is a maximum of 16 mm.

Weight of Product: 160 g

Weight including Packaging: 250 g Package size: 105x220x65 mm



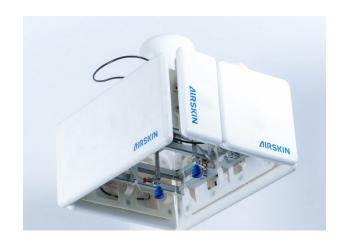
1 AIRSKIN® Pad 200x100

White industrial polyurethane, certified safety electronics, magnetic connectors

1 Mounting Structure H0

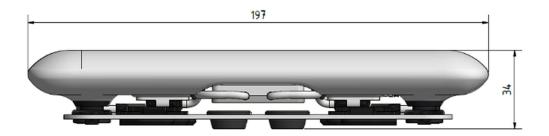
ABS structure with magnetic connectors for AIRSKIN® Pad and mounting points

1 Cable, 400 mm

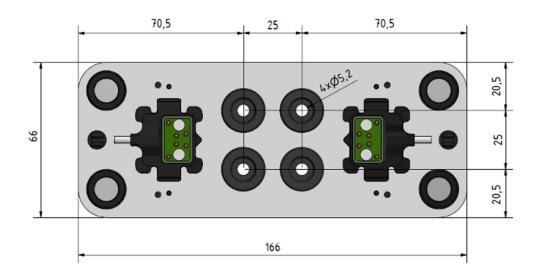




AIRSKIN® Module 200x100-H0 [BLASMOD200X100H0]







AIRSKIN® Module 200x100-H1 [BLASMOD200X100H1]

Product Description

AIRSKIN® Module 200x100-H1 is a pressure sensitive safety sensor. It consists of a soft AIRSKIN® pad with a size of 200 by 100 mm and a mounting structure with magnetic connectors. The total installed thickness is 52 mm and compressibility is a maximum of 30 mm.

Weight of Product: 180 g

Weight including Packaging: 270 g Package size: 105x220x65 mm



1 AIRSKIN® Pad 200x100

White industrial polyurethane, certified safety electronics, magnetic connectors

1 Mounting Structure H1

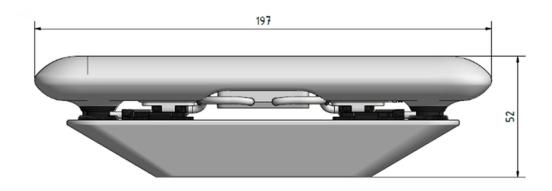
ABS structure with magnetic connectors for AIRSKIN® Pad and mounting points

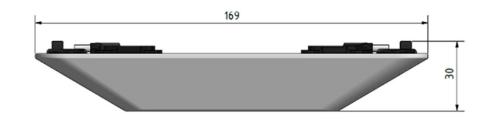
1 Cable, 400 mm

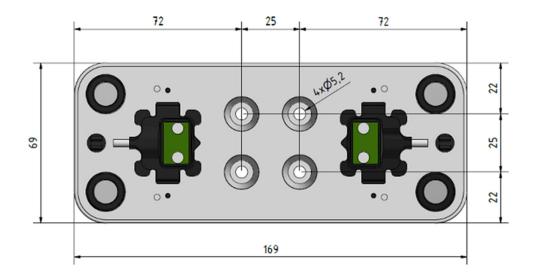




AIRSKIN® Module 200x100-H1 [BLASMOD200X100H1]







AIRSKIN® Module 200x200-H0 [BLASMOD200X200H0]

Product description

AIRSKIN® Module 200x200-H0 is a pressure sensitive safety sensor. It consists of a soft AIRSKIN® pad with a size of 200 by 200 mm and a mounting structure with magnetic connectors. The total installed thickness is 34 mm and compressibility is a maximum of 16 mm.

Weight of Product: 240 g

Weight including Packaging: 340 g Package size: 210x220x65 mm

Consists of

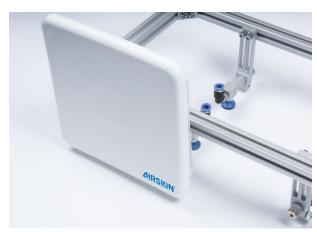
1 AIRSKIN® Pad 200x200

White industrial polyurethane, certified safety electronics, magnetic connectors

1 Mounting Structure H0

ABS structure with magnetic connectors for AIRSKIN® Pad and mounting points

1 Cable, 400 mm

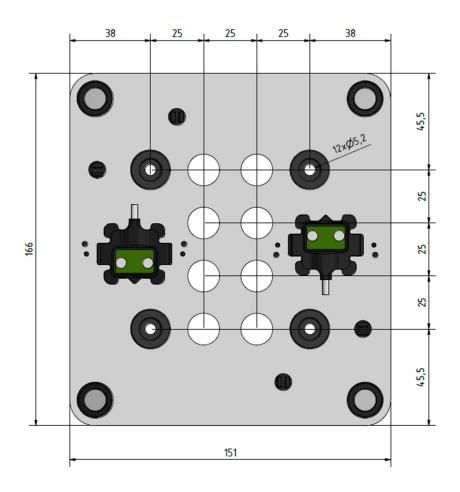




AIRSKIN® Module 200x200-H0 [BLASMOD200X200H0]







AIRSKIN® Module 200x200-H1 [BLASMOD200X200H1]

Product Description

AIRSKIN® Module 200x200-H1 is a pressure sensitive safety sensor. It consists of a soft AIRSKIN® pad with a size of 200 by 200 mm and a mounting structure with magnetic connectors. The total installed thickness is 52 mm and compressibility is a maximum of 30 mm.

Weight of Product: 280 g

Weight including Packaging: 380 g Package size: 210x220x65 mm



1 AIRSKIN® Pad 200x200

White industrial polyurethane, certified safety electronics, magnetic connectors

1 Mounting Structure H1

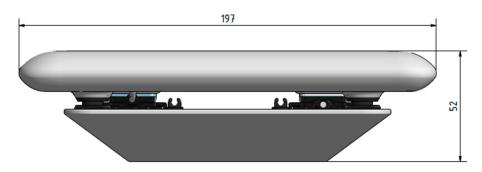
ABS structure with magnetic connectors for AIRSKIN® Pad and mounting points

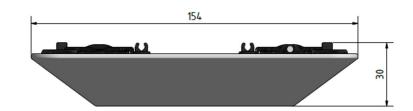
1 Cable, 400 mm

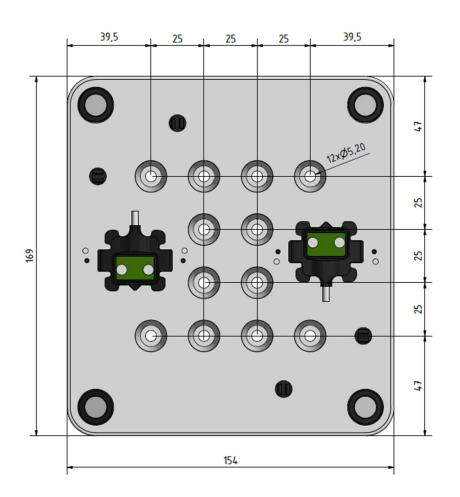




AIRSKIN® Module 200x200-H1 [BLASMOD200X200H1]







AIRSKIN® Module 300x200-H0 [BLASMOD300X200H0]

Product description

AIRSKIN® Module 300x200-H0 is a pressure sensitive safety sensor. It consists of a soft AIRSKIN® pad with a size of 300 by 200 mm and a mounting structure with magnetic connectors. The total installed thickness is 34 mm and compressibility is a maximum of 16 mm.

Weight of Product: 340 g

Weight including Packaging: 460 g Package size: 315x220x65 mm



1 AIRSKIN® Pad 300x200

White industrial polyurethane, certified safety electronics, magnetic connectors

1 Mounting Structure H0

ABS structure with magnetic connectors for AIRSKIN® Pad and mounting points

1 Cable, 400 mm

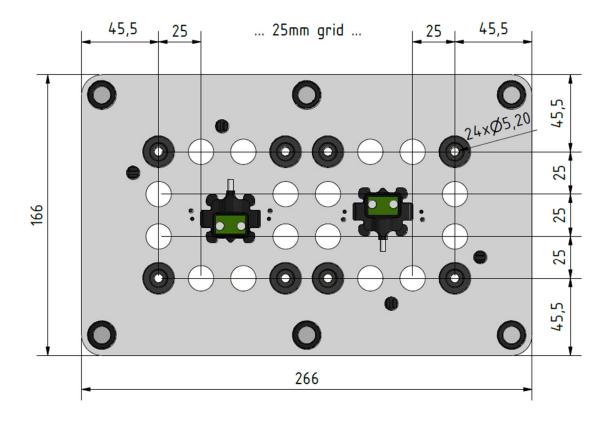




AIRSKIN® Module 300x200-H0 [BLASMOD300X200H0]







AIRSKIN® Module 300x200-H1 [BLASMOD300X200H1]

Product description

AIRSKIN® Module 300x200-H1 is a pressure sensitive safety sensor. It consists of a soft AIRSKIN® pad with a size of 300 by 200 mm and a mounting structure with magnetic connectors. The total installed thickness is 52 mm and compressibility is a maximum of 30 mm.

Weight of Product: 430 g

Weight including Packaging: 550 g Package size: 315x220x65 mm

Consists of

1 AIRSKIN® Pad 300x200

White industrial polyurethane, certified safety electronics, magnetic connectors

1 Mounting Structure H1

ABS structure with magnetic connectors for AIRSKIN® Pad and mounting points

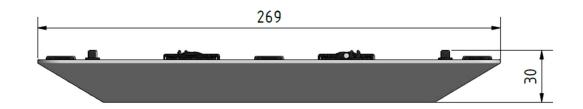
1 Cable, 400 mm

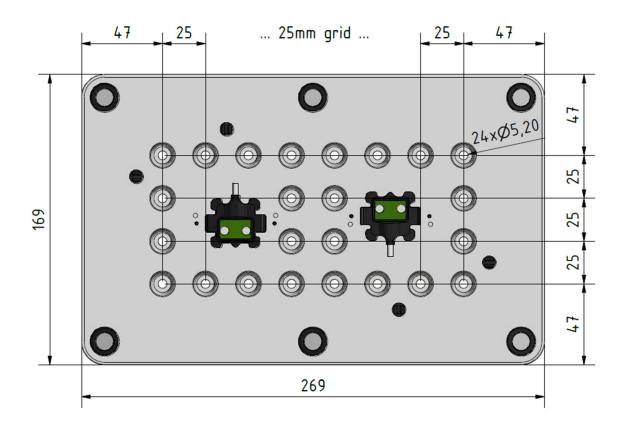




AIRSKIN® Module 300x200-H1 [BLASMOD300X200H1]







AIRSKIN® Module 400x200-H0 [BLASMOD400X200H0]

Product Description

AIRSKIN® Module 300x200-H0 is a pressure sensitive safety sensor. It consists of a soft AIRSKIN® pad with a size of 400 by 200 mm and a mounting structure with magnetic connectors. The total installed thickness is 34 mm and compressibility is a maximum of 16 mm.

Weight of Product: 430g

Weight including Packaging: 570g Package size: 420x220x65mm



1 AIRSKIN® Pad 400x200

White industrial polyurethane, certified safety electronics, magnetic connectors

1 Mounting Structure H0

ABS structure with magnetic connectors for AIRSKIN® Pad and mounting points

1 Cable, 400 mm

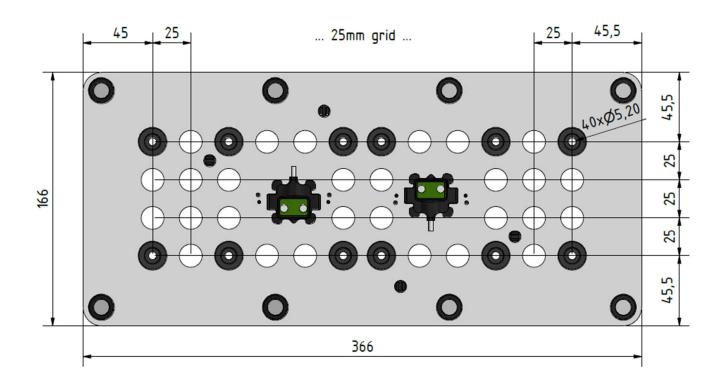




AIRSKIN® Module 400x200-H0 [BLASMOD400X200H0]







AIRSKIN® Module 400x200-H1 [BLASMOD400X200H1]

Product description

AIRSKIN® Module 400x200-H1 is a pressure sensitive safety sensor. It consists of a soft AIRSKIN® pad with a size of 400 by 200 mm and a mounting structure with magnetic connectors. The total installed thickness is 52 mm and compressibility is a maximum of 30 mm.

Weight of Product: 560 g

Weight including Packaging: 700 g Package size: 420x220x65 mm



1 AIRSKIN® Pad 00x200

White industrial polyurethane, certified safety electronics, magnetic connectors

1 Mounting Structure H1

ABS structure with magnetic connectors for AIRSKIN® Pad and mounting points

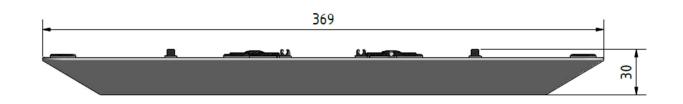
1 Cable, 400 mm

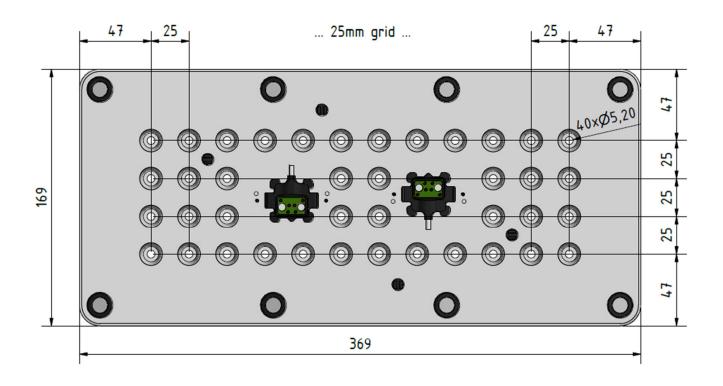




AIRSKIN® Module 400x200-H1 [BLASMOD400X200H1]







AIRSKIN® Module 200x160x100E-H0 [BLASMOD200X160X100EH0]

Product description

AIRSKIN® Module 200x160x100-H0 is a pressure sensitive safety sensor. It consists of a soft AIRSKIN® pad with a size of 200 by 160 by 100 mm and a mounting structure with magnetic connectors. The total installed thickness is 34 mm and compressibility is a maximum of 16 mm.

Weight of Product: 300 g

Weight including Packaging: 420 g Package size: 210x220x130 mm



1 AIRSKIN® Pad 200x160x100

White industrial polyurethane, certified safety electronics, magnetic connectors

1 Mounting Structure H0

ABS structure with magnetic connectors for AIRSKIN® Pad and mounting points

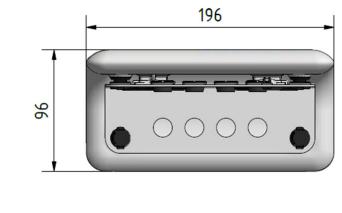
1 Cable, 400 mm

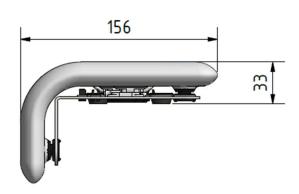


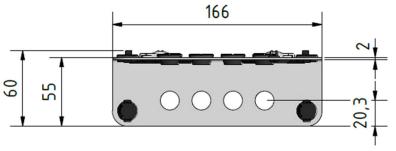


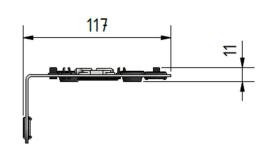


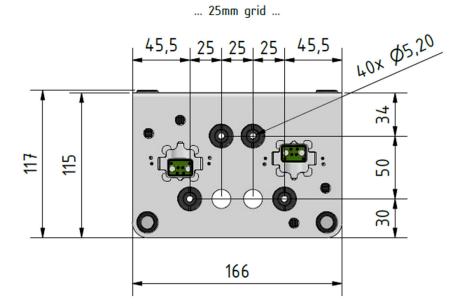
AIRSKIN® Module 200x160x100E-H0 [BLASMOD200X160X100EH0]











AIRSKIN® Module 200x260x100E-H0 [BLASMOD200X260X100EH0]

Product description

AIRSKIN® Module 200x260x100-H0 is a pressure sensitive safety sensor. It consists of a soft AIRSKIN® pad with a size of 200 by 260 by 100 mm and a mounting structure with magnetic connectors. The total installed thickness is 34 mm and compressibility is a maximum of 16 mm.

Weight of Product: 400 g

Weight including Packaging: 540 g Package size: 315x220x130 mm

Consists of

1 AIRSKIN® Pad 200x260x100

White industrial polyurethane, certified safety electronics, magnetic connectors

1 Mounting Structure H0

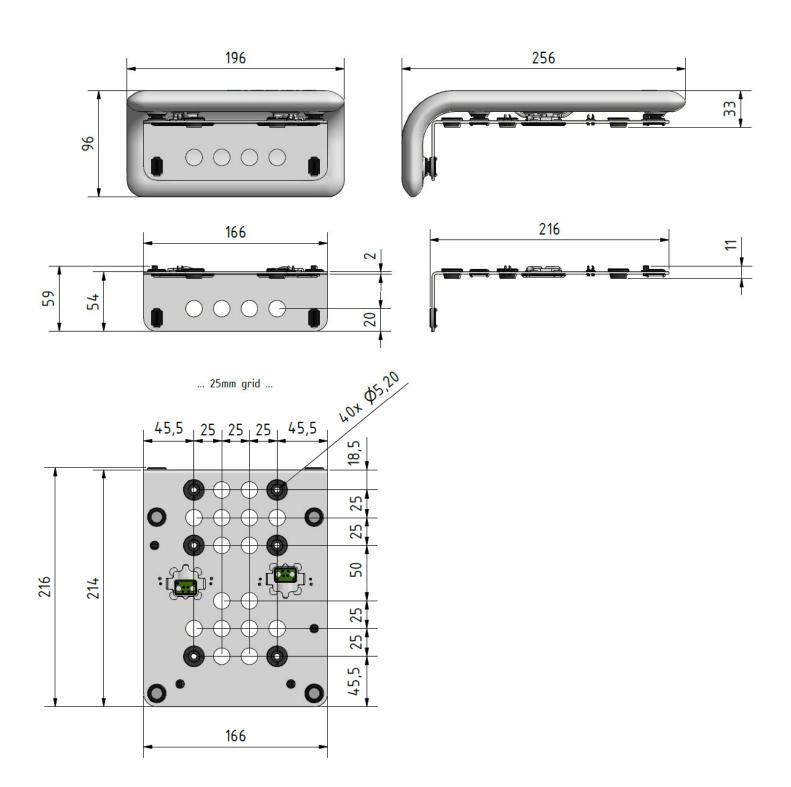
ABS structure with magnetic connectors for AIRSKIN® Pad and mounting points

1 Cable, 400 mm





AIRSKIN® Module 200x260x100E-H0 [BLASMOD200X260X100EH0]



AIRSKIN® Module 400x200x100E-H0 [BLASMOD400X200X100EH0]

Product Description

AIRSKIN® Module 400x200x100-H0 is a pressure sensitive safety sensor. It consists of a soft AIRSKIN® pad with a size of 400 by 200 by 100 mm and a mounting structure with magnetic connectors. The total installed thickness is 34 mm and compressibility is a maximum of 16 mm.

Weight of Product: 645 g

Weight including Packaging: 805 g Package size: 420x220x130 mm



1 AIRSKIN® Pad 400x200x100

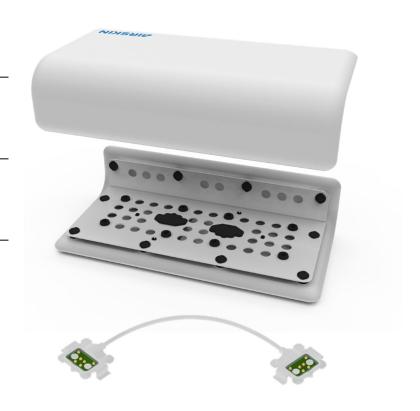
White industrial polyurethane, certified safety electronics, magnetic connectors

1 Mounting Structure H0

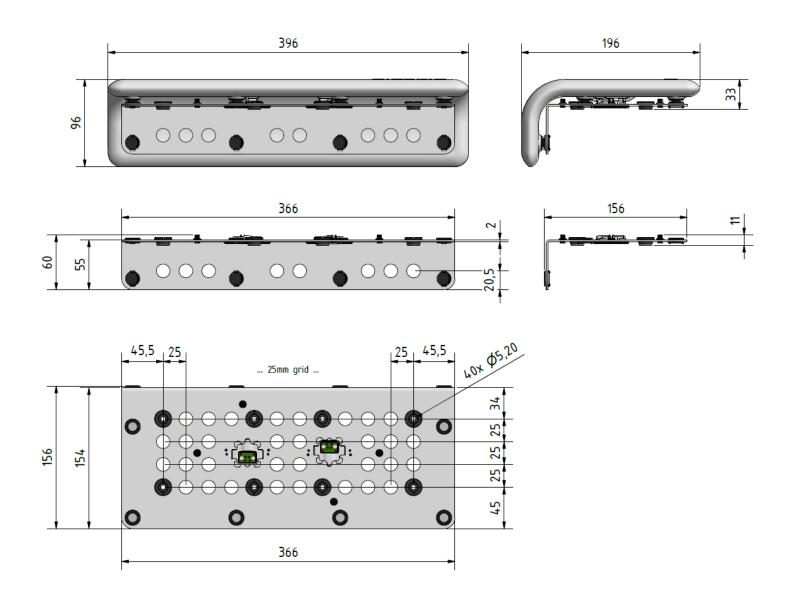
ABS structure with magnetic connectors for AIRSKIN® Pad and mounting points

1 Cable, 400 mm





AIRSKIN® Module 400x200x100E-H0 [BLASMOD400X200X100EH0]



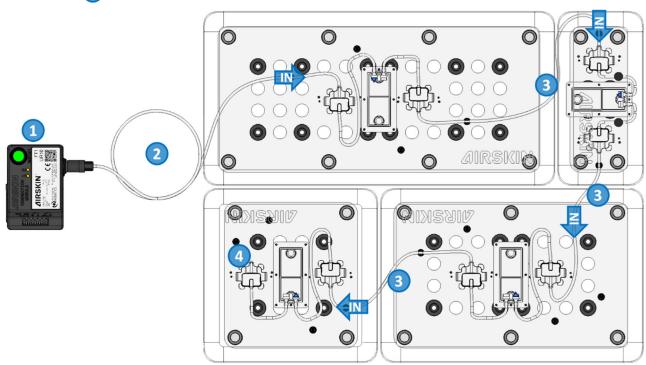
Installation and Cabling

Operation of AIRSKIN® Modules requires:

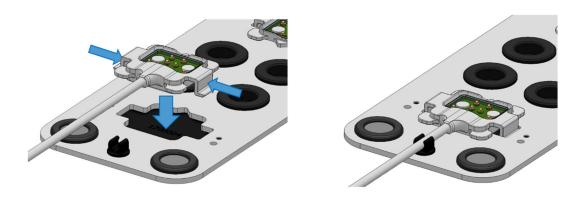
AIRSKIN® connection box 1 with connection cable 2

Up to 15 AIRSKIN® Modules in series with cables 3

Terminator 4



Mounting of magnetic connectors:



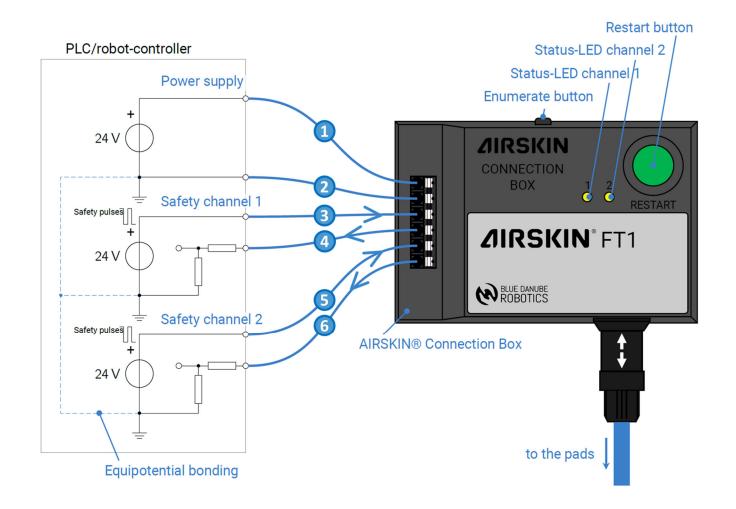
Installation and Cabling

Note

- Please read the AIRSKIN® manual
- Electrical connection to robot controller via AIRSKIN® Connection Box
- Input voltage 1+ 24V DC
- Current consumption ≤ 0.8A
- Not potential-free! When using an external power supply, grounds of power supply and 2 robot controller must be connected!

Safety Channels

- Inputs 3 und 4 + 24 V DC (test pulses allowed)
- Outputs 5 und 6 + 24 V DC (no collision safety channels closed) or 0 V DC (collision or error safety channels open)

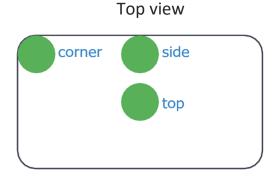


Actuation Characteristics

Equipment

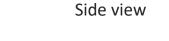
Robotiq FT 300 Force Torque Sensor on a lightweight robot arm

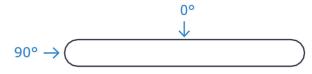
Contact area: Cylinder with diameter 30 mm



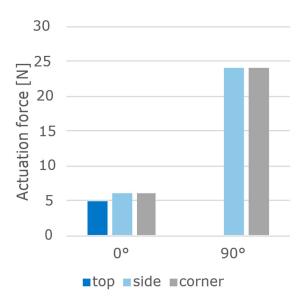
Measurement

The tip of the cylinder is moving towards the pad with 20 mm/s. When the AIRSKIN® module pad is activated, the resulting force is measured by the FT 300 sensor. The distance travelled by the tip after touching the AIRSKIN® surface is taken via the robot controller. Values are averaged over 5 measurements.

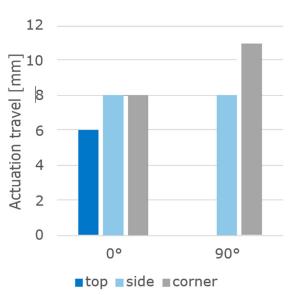




AIRSKIN® Modules H0 Actuation: Force



AIRSKIN® Modules H0 Actuation: Travel





Blue Danube Robotics GmbH

Niedermoserstrasse 14 1220 Vienna, Austria

UID/VAT ATU69915103FN 440505b Commercial Court Vienna

Contact

+43 1 890 86 97 – 900 sales@airskin.io www.airskin.io

YouTube

youtube.com/c/BlueDanubeRoboticsGmbH

Linkedin

linkedin.com/company/airskin-by-blue-danube-robotics/

For more information

CAD Data, KUKA Sim files and Datasheetscan be downloaded from:

https://www.airskin.io/downloadkit