![AUTOMATION DIRECT.com]

Metal sensing proximity switch

Type Analog output model

Part number	**AT9-05-1A**

Switching distance s_n	**0 ... 20 mm**

Wiring

braun brun brown (1) $+U_B$
schwarz noir black (4) A1
weiss blanc white (2) A2
blau bleu blue (3) 0 V

39 V

Last Charge Load

R_{L2} R_{L1}

U_B 10 ... 30 VDC
U_{A1} 0...+5 VDC
I_{A2} 1 ...5 mA
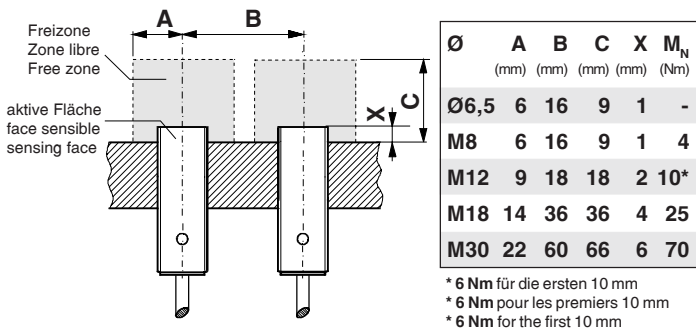
CiVADC14

CE

Mounting recommendations

Free zone

Providing the following free zones is mandatory for reliable operation.

Ø	A	B	C	X	M_N
	(mm)	(mm)	(mm)	(mm)	(Nm)
Ø6,5	6	16	9	1	-
M8	6	16	9	1	4
M12	9	18	18	2	10*
M18	14	36	36	4	25
M30	22	60	66	6	70

* 6 Nm für die ersten 10 mm
* 6 Nm pour les premiers 10 mm
* 6 Nm for the first 10 mm

Sensing range

The effective usable sensing range is

$$0 < s_r < 0.81 \, s_n$$

measured with the square standard target with $l = Ø_a$
or $l = 3 \times s_n$.

Tightening torque

The specified maximum tightening torque M_N should not be exceeded.

Sensing face

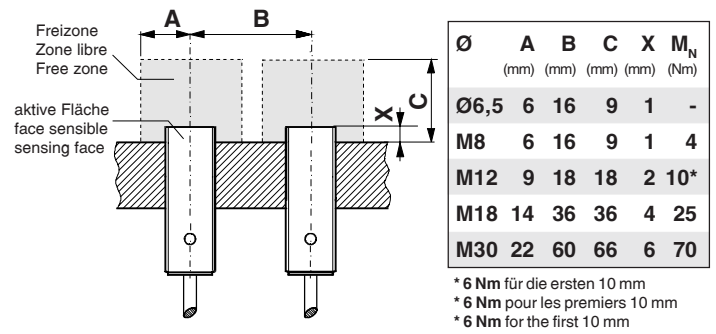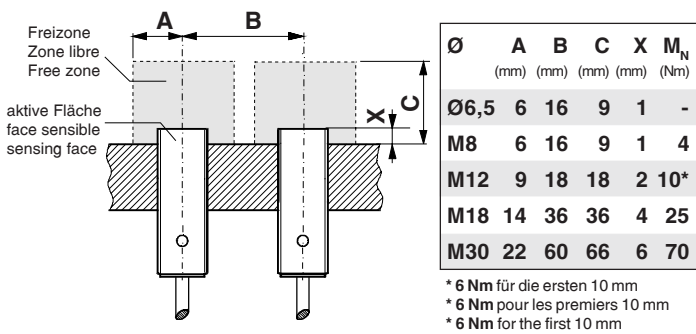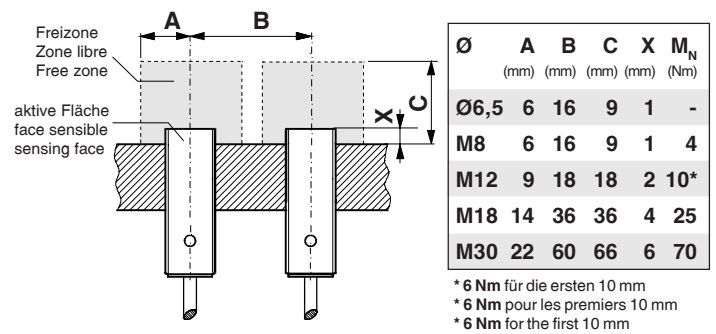The sensing face should not be mechanically damaged.

Safety

These Proximity Switches are not suited for safety related applications.
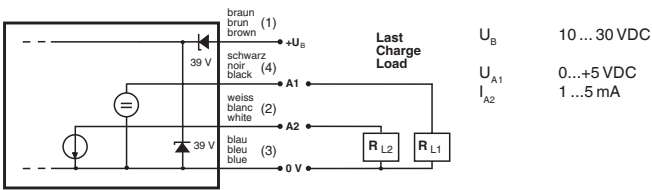
CIRADC12

Metal sensing proximity switch

Type Analog output model

Part number	**AT9-05-1H**

Switching distance s_n	**0 ... 20 mm**

Wiring

braun brun brown (1) +U$_B$
schwarz noir black (4) A1
weiss blanc white (2) A2
blau bleu blue (3) 0 V
39 V

Last Charge Load

R$_{L2}$ R$_{L1}$

U_B 10 ... 30 VDC
U_{A1} 0...+5 VDC
I_{A2} 1 ...5 mA

CiVADC14

CE

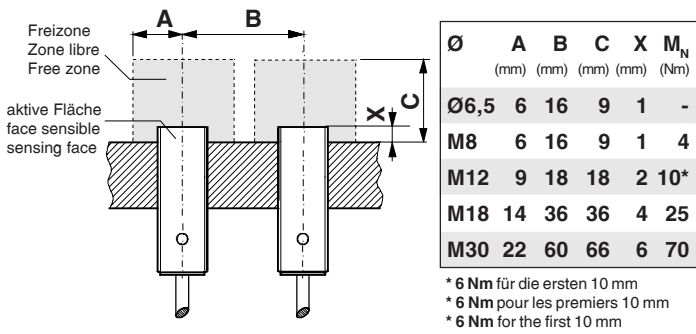
Mounting recommendations

Free zone

Providing the following free zones is mandatory for reliable operation.

Freizone
Zone libre
Free zone

aktive Fläche
face sensible
sensing face

Ø	A	B	C	X	M_N
	(mm)	(mm)	(mm)	(mm)	(Nm)
Ø6,5	6	16	9	1	-
M8	6	16	9	1	4
M12	9	18	18	2	10*
M18	14	36	36	4	25
M30	22	60	66	6	70

* 6 Nm für die ersten 10 mm
* 6 Nm pour les premiers 10 mm
* 6 Nm for the first 10 mm

Sensing range

The effective usable sensing range is

$$0 < s_r < 0.81\ s_n$$

measured with the square standard target with $l = Ø_a$
or $l = 3 \times s_n$.

Tightening torque

The specified maximum tightening torque M_N should not be exceeded.

Sensing face

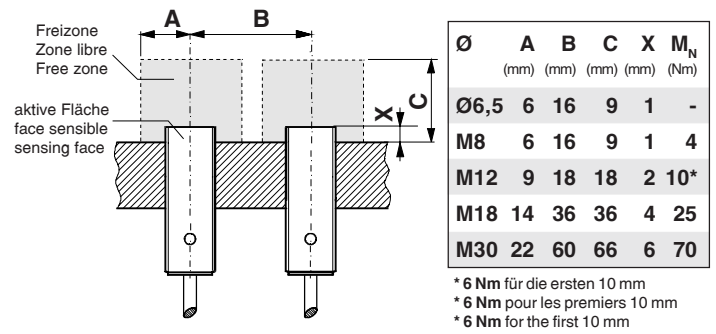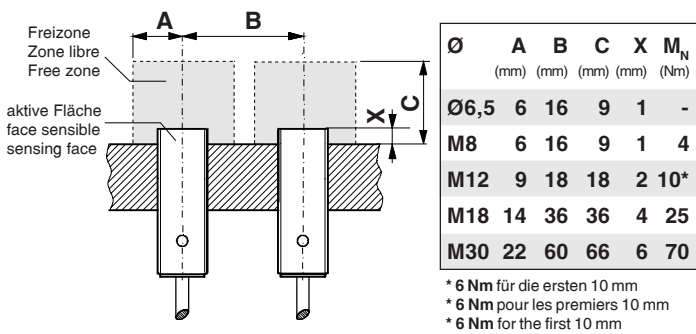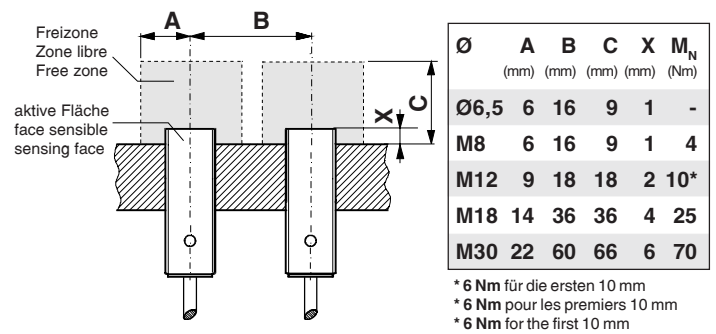The sensing face should not be mechanically damaged.

Safety

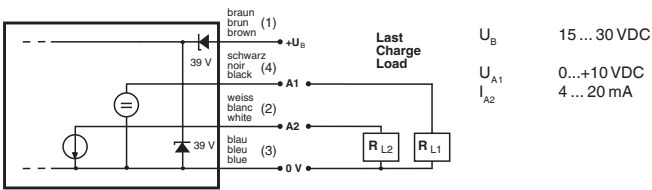**These Proximity Switches are not suited for safety related applications.**

Metal sensing proximity switch

Type Analog output model

Part number **AT9-10-1A**
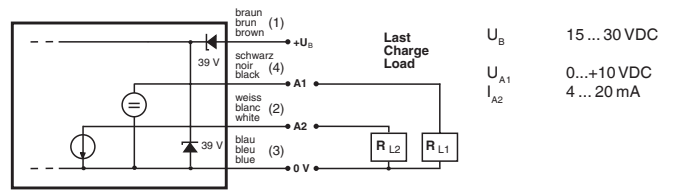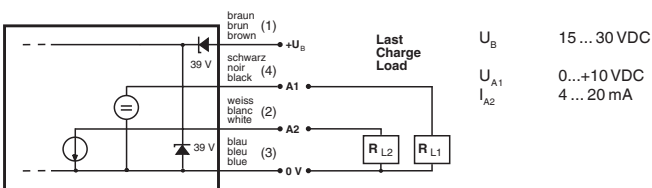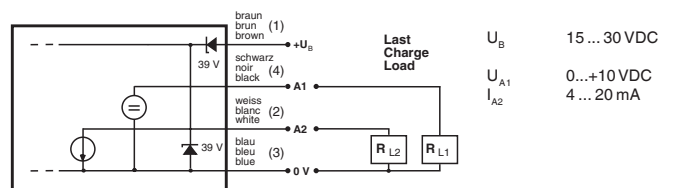
Switching distance s_n **0 ... 20 mm**

Wiring

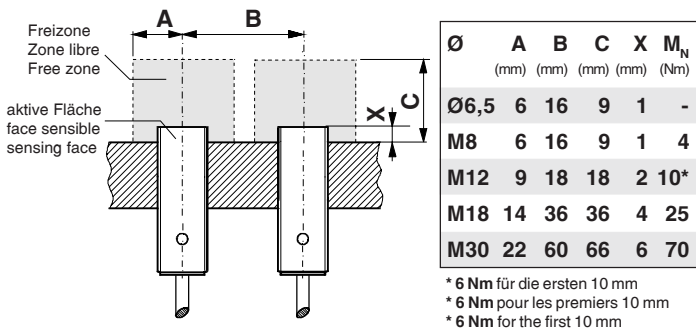braun brun brown (1) $+U_B$
schwarz noir black (4) A1
weiss blanc white (2) A2
blau bleu blue (3) 0 V

39 V

Last Charge Load

R_{L2} R_{L1}

U_B 15 ... 30 VDC
U_{A1} 0...+10 VDC
I_{A2} 4 ... 20 mA

CiVADC14

CE

Mounting recommendations

Free zone
Providing the following free zones is mandatory for reliable operation.

Ø	A (mm)	B (mm)	C (mm)	X (mm)	M_N (Nm)
Ø6,5	6	16	9	1	-
M8	6	16	9	1	4
M12	9	18	18	2	10*
M18	14	36	36	4	25
M30	22	60	66	6	70

* **6 Nm** für die ersten 10 mm
* **6 Nm** pour les premiers 10 mm
* **6 Nm** for the first 10 mm

Sensing range
The effective usable sensing range is

$$0 < s_r < 0.81\ s_n$$

measured with the square standard target with $l = Ø_a$
or $l = 3 \times s_n$.

Tightening torque
The specified maximum tightening torque M_N should not be exceeded.

Sensing face
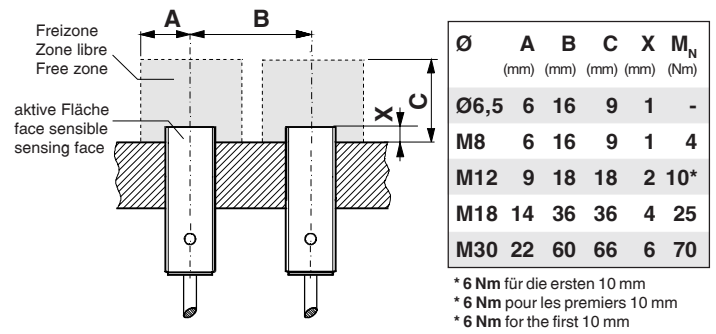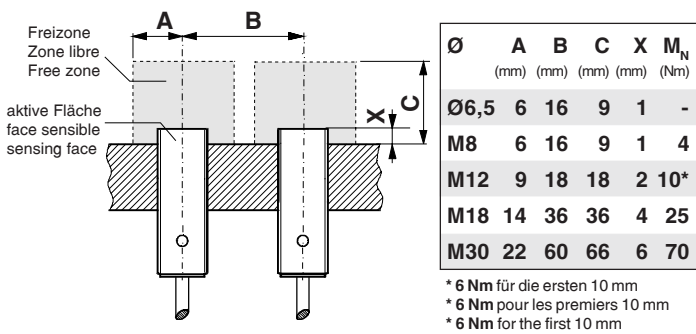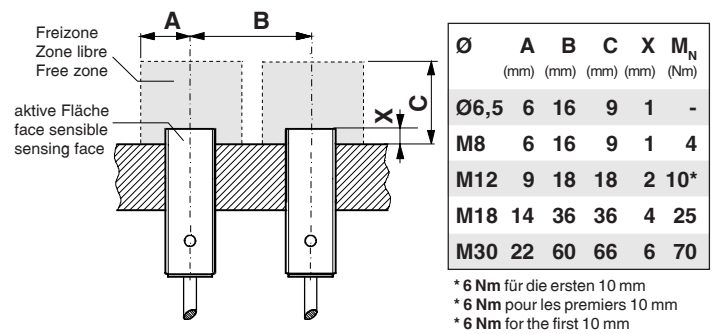The sensing face should not be mechanically damaged.

Safety
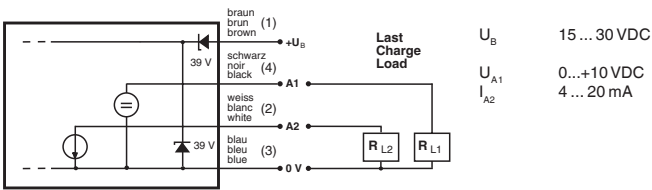**These Proximity Switches are not suited for safety related applications.**

CIRADC12

Metal sensing proximity switch

Type Analog output model

Part number **AT9-10-1H**
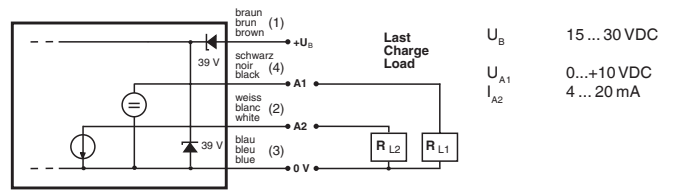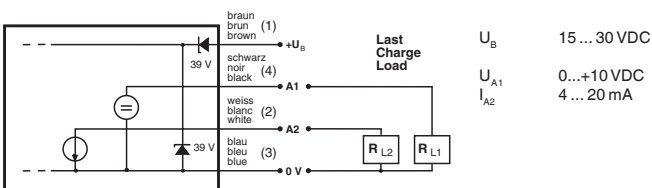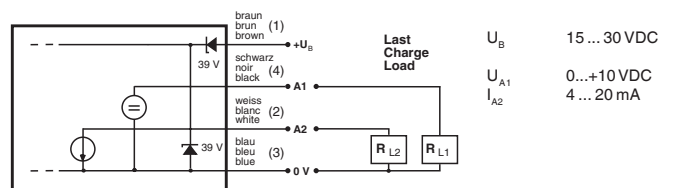
Switching distance s_n **0 ... 20 mm**

Wiring

U_B	15 ... 30 VDC
U_{A1}	0...+10 VDC
I_{A2}	4 ... 20 mA

braun brun brown (1) +U_B
schwarz noir black (4) A1
weiss blanc white (2) A2
blau bleu blue (3) 0 V
39 V
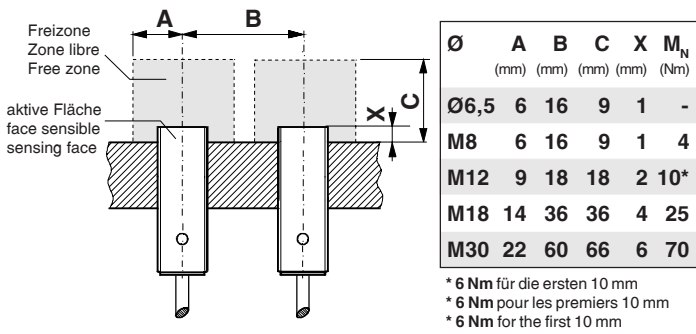Last Charge Load
R_{L2} R_{L1}

CiVADC14

CE

Mounting recommendations

Free zone

Providing the following free zones is mandatory for reliable operation.

| Freizone Zone libre Free zone |
| aktive Fläche face sensible sensing face |

Ø	A	B	C	X	M_N
	(mm)	(mm)	(mm)	(mm)	(Nm)
Ø6,5	6	16	9	1	-
M8	6	16	9	1	4
M12	9	18	18	2	10*
M18	14	36	36	4	25
M30	22	60	66	6	70

* **6 Nm** für die ersten 10 mm
* **6 Nm** pour les premiers 10 mm
* **6 Nm** for the first 10 mm

Sensing range

The effective usable sensing range is

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measured with the square standard target with $l = Ø_a$ or $l = 3 \times s_n$.

Tightening torque

The specified maximum tightening torque M_N should not be exceeded.

Sensing face

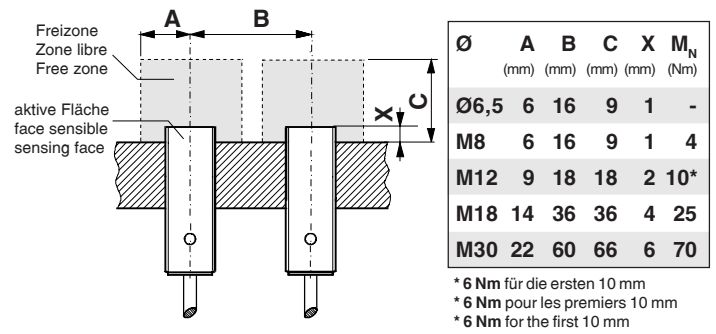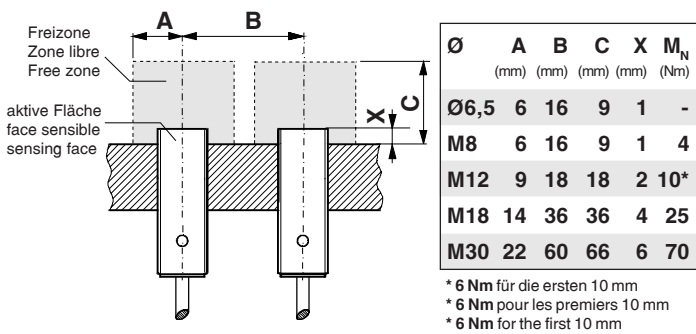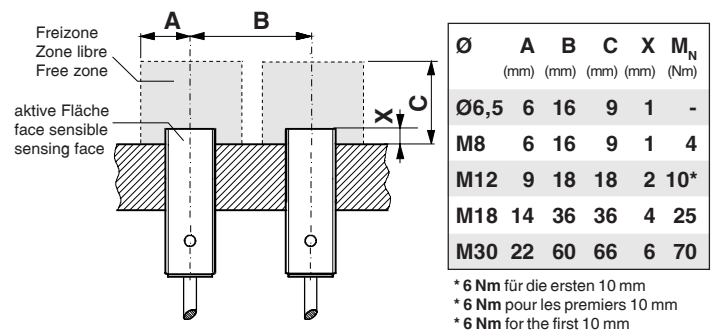The sensing face should not be mechanically damaged.

Safety

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CIRADC12