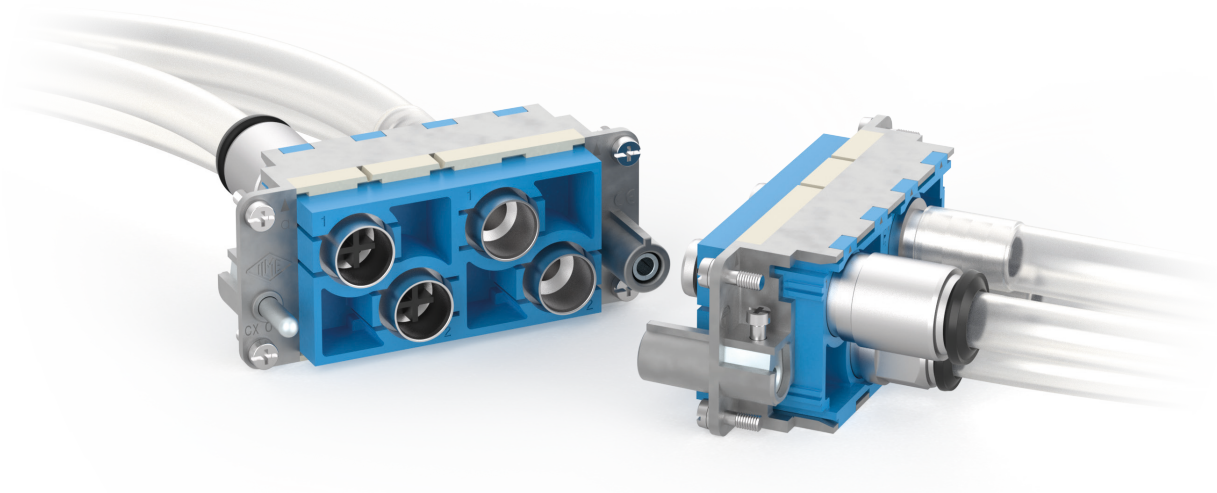


MIXO PNEUMATIC METAL CX 02 MPB



**New double-sized connector modules
and relevant metal removable pneumatic contacts:**

- for transmission of clean and compressed air
- female contacts with or without shut-off valve
- straight version with:
 - hose barbs push-over tube attachment (ID: 8 and 10 mm)
 - quick-fitting push-in tube attachment (OD: 8 and 10 mm)



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www.ilme.com

TECHNICAL FEATURES

- Q Connector modules (male and female, due to asymmetric design) **for up to 2 metal removable pneumatic contacts** of any of the two **8.0** and **10** sizes available.
- Q Metal pneumatic contacts with hose barbs, push-over tube attachment, straight version (work on ID – inner diameter) for use with hoods with vertical cable outlet, or bulkhead mounting housings.
- Q Metal pneumatic contacts with quick-fitting, push-in tube attachment, straight version (work on OD – outer diameter) for use with hoods with vertical cable outlet, or bulkhead mounting housings.
- Q All **contacts are removable**, without damaging the module or the contact, by means of the **CMPEB B** dedicated removal tool.

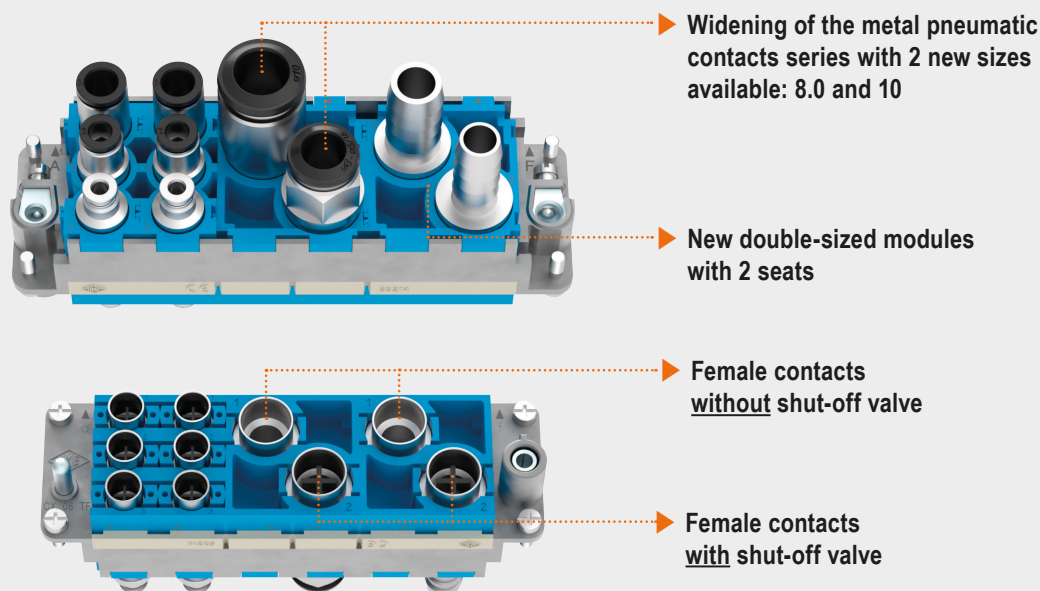
- Q For tubes Ø 8 mm and Ø 10 mm (see Table 1. below): outer diameter OD (push-in attachment of tubes to the quick-fitting contacts), or inner diameter ID (push-over attachment of tubes over barbed straight contacts).

✓ CERTIFICATIONS

- cURus, CQC, DNV, BV, pending.
- **CE** and **UKCA** markings and EAC mark not applicable.
- **RoHS:**
 - pneumatic metal module: compliant without exemptions;
 - metal pneumatic contacts: compliant with exemption **6(c)**.

	Tube Ø 8 mm				Tube Ø 10 mm			
	hose barbs (ID - inner Ø)		quick-fitting (OD - outer Ø)		hose barbs (ID - inner Ø)		quick-fitting (OD - outer Ø)	
	Male	Female	Male	Female	Male	Female	Male	Female
Straight <u>without</u> shut-off valve	CX 8.0 MPM	CX 8.0 MPF	CX 8.0 MPQM	CX 8.0 MPQF	CX 10 MPM	CX 10 MPF	CX 10 MPQM	CX 10 MPQF
Straight <u>with</u> shut-off valve		CX 8.0 MPV		CX 8.0 MPQV		CX 10 MPV		CX 10 MPQV

Table 1. Pneumatic contacts



CX 02 MPB metal removable pneumatic contacts

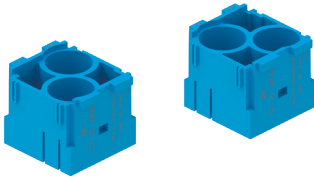
The modular inserts must be installed in suitable frames, which are then mounted in traditional enclosures* or in COB panel supports

page:

frames for modular units*

317

modular units
with 2 seats



Q 10 000 MATINGS WITH HNM FRAMES
AND HNM ENCLOSURES

FROM JUNE 2023

removal tool



FROM JUNE 2023

refer to CN.19 pages

description

part No.

part No.

without contacts (to be ordered separately)
female insert with 2 housings, for tube \varnothing 8 - 10 mm
male insert with 2 housings, for tube \varnothing 8 - 10 mm

[CX 02 MPBF](#)
[CX 02 MPBM](#)

removal tool
for metal pneumatic contacts \varnothing 8 - 10 mm

[CMPES B](#)

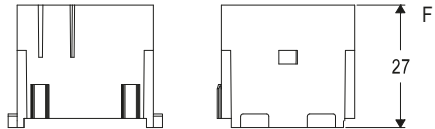
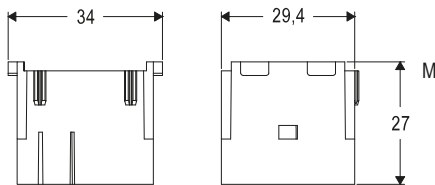
- UL, (ECBT2/8), DNV, BV pending
- insulation resistance: $\geq 10 \text{ G}\Omega$
- working temperature range: $-40^\circ\text{C} + +80^\circ\text{C}$
- made of self-extinguishing thermoplastic resin UL 94V-0
- mechanical life:
 - ≥ 500 cycles with MIXO frames and enclosures
 - ≥ 10.000 cycles with HNM MIXO frames and enclosures

Use of units for metal pneumatic contacts

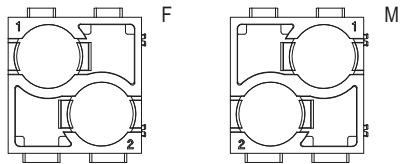
- pneumatic contacts for pressure values up to 10 bar, for use with clean and dry compressed air
- use of tubes with \varnothing 8 - 10 mm (ID inner \varnothing for hose barbs contacts, OD outer \varnothing for quick-fitting contacts), and possible replacement of tubes with assembled units
- possibility of using tubes with different diameters in the same modular unit
- female contacts with or without closing valve

Warnings:

- CRM/F CX coding and guiding pins must be used for pneumatic contacts modules.
- These pins also provide coding if pneumatic contacts modules are used exclusively.
- The use of pneumatic contacts requires an appropriate filtering and dehydration system to prevent dangerous condensation.



contacts side (front view)
side with reference arrow ▲



CX 02 MPB metal removable pneumatic contacts



metal pneumatic contacts, straight
hose barbs, tube ID inner ø 8 - 10 mm



FROM JUNE 2023

metal pneumatic contacts, straight
quick-fitting, tube OD outer ø 8 - 10 mm



FROM JUNE 2023

description

part No.

part No.

hose barbs (ID outer ø) male contacts
without shut-off valve
without shut-off valve

[CX 8.0 MPM](#)
[CX 10 MPM](#)

hose barbs (ID outer ø) female contacts
without shut-off valve
without shut-off valve

[CX 8.0 MPF](#)
[CX 10 MPF](#)

hose barbs (ID outer ø) female contacts
with shut-off valve
with shut-off valve

[CX 8.0 MPV](#)
[CX 10 MPV](#)

quick-fitting (OD outer ø) male contacts
without shut-off valve
without shut-off valve

[CX 8.0 MPQM](#)
[CX 10 MPQM](#)

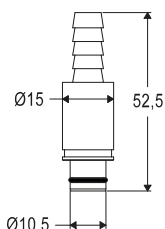
quick-fitting (OD outer ø) female contacts
without shut-off valve
without shut-off valve

[CX 8.0 MPQF](#)
[CX 10 MPQF](#)

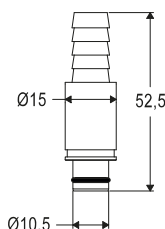
quick-fitting (OD outer ø) female contacts
with shut-off valve
with shut-off valve

[CX 8.0 MPQV](#)
[CX 10 MPQV](#)

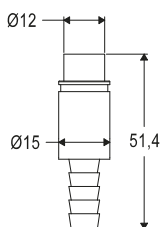
CX 8.0 MPM



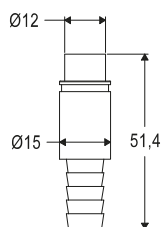
CX 10 MPM



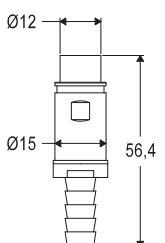
CX 8.0 MPF



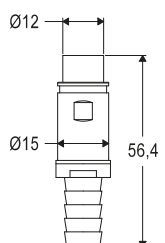
CX 10 MPF



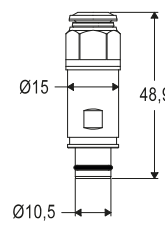
CX 8.0 MPV



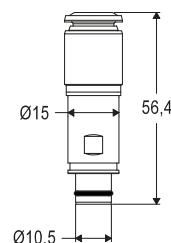
CX 10 MPV



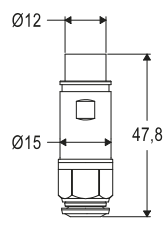
CX 8.0 MPQM



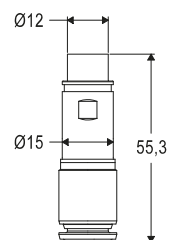
CX 10 MPQM



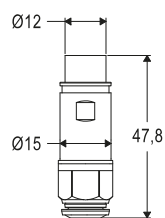
CX 8.0 MPQF



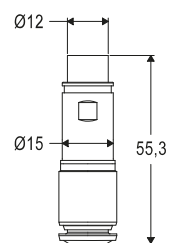
CX 10 MPQF



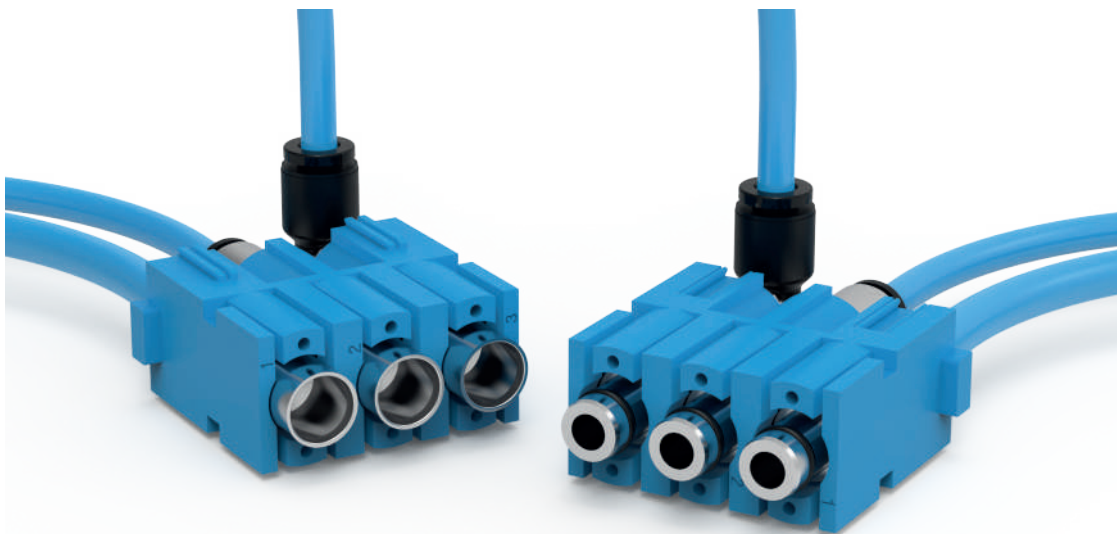
CX 8.0 MPQV



CX 10 MPQV



MIXO PNEUMATIC METAL CX 03 MP



Connector module and metal removable
pneumatic contacts

- for transmission of clean and compressed air
- straight and angled versions
- with hose barbs push-over tube attachment
or with quick-fitting push-in tube attachment
- female contacts with/without shut-off valve
- CMPES removal tool



Find more
information on
our products at
www.ilme.com

TECHNICAL FEATURES

CX 03 MP



Watch
our technical
clip

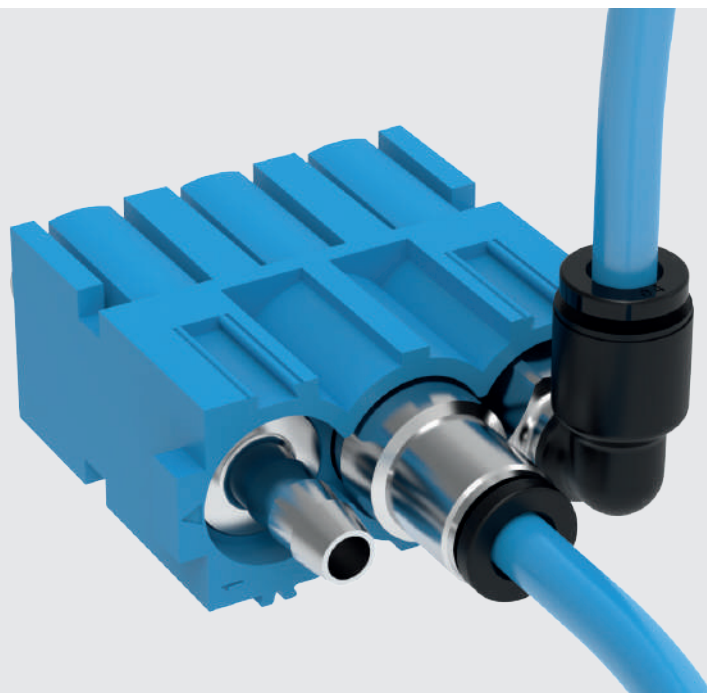
- Connector module **for up to 3 metal removable pneumatic contacts** of any of the three sizes available: 3.0, 4.0, 6.0.
- Contacts with hose barbs, push-over tube attachment, straight version only.
- Contacts with quick-fitting, push-in tube attachment, both straight and angled versions.
- All **contacts removable** without damaging the module or the contact, with **CMPEs** dedicated removal tool.
- Straight version for use with hoods with vertical cable outlet.
- Angled version for use with hoods with horizontal cable outlet.
- For tubes Ø 3 mm, Ø 4 mm and Ø 6 mm (see Table 1. below):
 - outer diameter OD (push-in attachment of tubes to the quick-fitting contacts), or
 - inner diameter ID (push-over attachment of tubes over barbed straight contacts).
- **RoHS**
pneumatic metal module: compliant without exemptions
metal pneumatic contacts: compliant with exemption **6(c)**.

Table 1. Pneumatic contacts

	Tube Ø 3 mm				Tube Ø 4 mm				Tube Ø 6 mm			
	hose barbs (ID - inner Ø)		quick-fitting (OD - outer Ø)		hose barbs (ID - inner Ø)		quick-fitting (OD - outer Ø)		hose barbs (ID - inner Ø)		quick-fitting (OD - outer Ø)	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Straight <u>without</u> shut-off valve	CX 3.0 MPM	CX 3.0 MPF	CX 3.0 MPQM	CX 3.0 MPQF	CX 4.0 MPM	CX 4.0 MPF	CX 4.0 MPQM	CX 4.0 MPQF	CX 6.0 MPM	CX 6.0 MPF	CX 6.0 MPQM	CX 6.0 MPQF
Straight <u>with</u> shut-off valve		CX 3.0 MPV		CX 3.0 MPQV		CX 4.0 MPV		CX 4.0 MPQV		CX 6.0 MPV		CX 6.0 MPQV
Angled <u>without</u> shut-off valve			CX 3.0 MPAM	CX 3.0 MPAF			CX 4.0 MPAM	CX 4.0 MPAF			CX 6.0 MPAM	CX 6.0 MPAF
Angled <u>with</u> shut-off valve				CX 3.0 MPAV				CX 4.0 MPAV				CX 6.0 MPAV

straight version and
angled version available
for use with different
cable outlets

with hose barbs
push-over tube
attachment or with
quick-fitting push-in
tube attachment



CX 03 MP metal removable pneumatic contacts

The modular inserts must be installed in suitable frames which are then mounted in traditional housings or in COB panel support. Single-sized modular units may be directly mounted inside MIXO ONE enclosures.

modular units
with 3 seats



Q 10 000 MATINGS WITH HNM FRAMES
AND HNM ENCLOSURES

FROM OCTOBER 2021

metal pneumatic contacts, straight
hose barbs
tube ID inner Ø 3 - 4 - 6 mm



FROM OCTOBER 2021

frames for modular units	76
MIXO ONE enclosures	369

refer to CN.19 pages

description	part No.	part No.
without contacts (to be ordered separately) inserts with 3 housings for tube Ø 3 - 4 - 6 mm	CX 03 MP	
hose barbs (ID inner Ø) male contacts, without shut-off valve without shut-off valve without shut-off valve		CX 3.0 MPM CX 4.0 MPM CX 6.0 MPM
hose barbs (ID inner Ø) female contacts, without shut-off valve without shut-off valve without shut-off valve		CX 3.0 MPF CX 4.0 MPF CX 6.0 MPF
hose barbs (ID inner Ø) female contacts, with shut-off valve with shut-off valve with shut-off valve		CX 3.0 MPV CX 4.0 MPV CX 6.0 MPV

- UL, CSA, DNV-GL, BV pending
- insulation resistance: $\geq 10 \text{ G}\Omega$
- made of self-extinguishing thermoplastic resin
UL 94V-0
- **mechanical life:**
 ≥ 10.000 cycles
with HNM frame and HNM enclosures
 ≥ 500 cycles
with MIXO frames and standard enclosures
- working temperature range - 40 °C ÷ + 80 °C

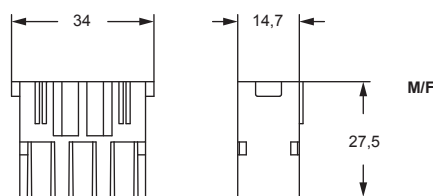
Use of units for metal pneumatic contacts

- identical male and female modular units
- pneumatic contacts for pressure values up to 10 bar,
for use with clean and dry compressed air
- use of tubes with Ø 3 - 4 and 6 mm (ID inner Ø for hose
barbs contacts, OD outer Ø for quick-fitting contacts),
and possible replacement of tubes with assembled units
- possibility of using tubes with different diameters in the
same modular unit
- female contacts with or without closing valve
- working temperature range - 40 °C ÷ + 80 °C
- **CMPEs** removal tool *

* **CMPEs**
removal tool

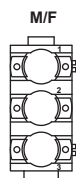


CX 03 MP



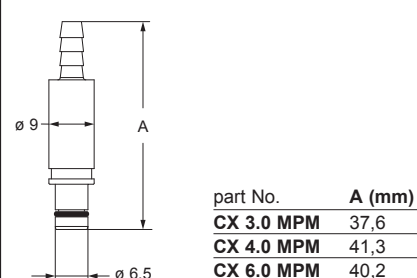
contacts side (front view)

side with reference arrow ▲



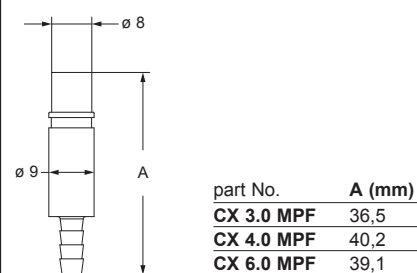
- 1 frame slot

CX 3.0 / 4.0 / 6.0 MPM



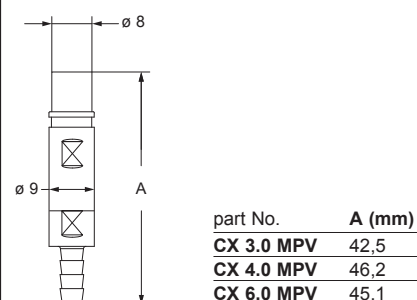
part No.	A (mm)
CX 3.0 MPM	37,6
CX 4.0 MPM	41,3
CX 6.0 MPM	40,2

CX 3.0 / 4.0 / 6.0 MPF



part No.	A (mm)
CX 3.0 MPF	36,5
CX 4.0 MPF	40,2
CX 6.0 MPF	39,1

CX 3.0 / 4.0 / 6.0 MPV



part No.	A (mm)
CX 3.0 MPV	42,5
CX 4.0 MPV	46,2
CX 6.0 MPV	45,1

Warnings:

- CRM/F CX coding and guiding pins must be used for
pneumatic contacts modules.
- These pins also provide coding if pneumatic contacts
modules are used exclusively.
- The use of pneumatic contacts requires an appropriate
filtering and dehydration system to prevent dangerous
condensation.

metal pneumatic contacts, straight
quick-fitting
tube OD outer Ø 3 - 4 - 6 mm



FROM OCTOBER 2021

metal pneumatic contacts, angled
quick-fitting
tube OD outer Ø 3 - 4 - 6 mm



FROM OCTOBER 2021

description	part No.	part No.
quick-fitting (OD outer Ø) male contacts, without shut-off valve without shut-off valve without shut-off valve	straight CX 3.0 MPQM CX 4.0 MPQM CX 6.0 MPQM	angled CX 3.0 MPAM CX 4.0 MPAM CX 6.0 MPAM
quick-fitting (OD outer Ø) female contacts, without shut-off valve without shut-off valve without shut-off valve	straight CX 3.0 MPQF CX 4.0 MPQF CX 6.0 MPQF	angled CX 3.0 MPAF CX 4.0 MPAF CX 6.0 MPAF
quick-fitting (OD outer Ø) female contacts, with shut-off valve with shut-off valve with shut-off valve	straight CX 3.0 MPQV CX 4.0 MPQV CX 6.0 MPQV	angled CX 3.0 MPAV CX 4.0 MPAV CX 6.0 MPAV

<p>CX 3.0 / 4.0 / 6.0 MPQM</p> <table> <tr> <th>part No.</th><th>A (mm)</th></tr> <tr> <td>CX 3.0 MPQM</td><td>45,5</td></tr> <tr> <td>CX 4.0 MPQM</td><td>45,5</td></tr> <tr> <td>CX 6.0 MPQM</td><td>47,5</td></tr> </table>	part No.	A (mm)	CX 3.0 MPQM	45,5	CX 4.0 MPQM	45,5	CX 6.0 MPQM	47,5	<p>CX 3.0 / 4.0 / 6.0 MPAM</p> <table> <tr> <th>part No.</th><th>A (mm)</th></tr> <tr> <td>CX 3.0 MPAM</td><td>45,5</td></tr> <tr> <td>CX 4.0 MPAM</td><td>45,1</td></tr> <tr> <td>CX 6.0 MPAM</td><td>47,5</td></tr> </table>	part No.	A (mm)	CX 3.0 MPAM	45,5	CX 4.0 MPAM	45,1	CX 6.0 MPAM	47,5
part No.	A (mm)																
CX 3.0 MPQM	45,5																
CX 4.0 MPQM	45,5																
CX 6.0 MPQM	47,5																
part No.	A (mm)																
CX 3.0 MPAM	45,5																
CX 4.0 MPAM	45,1																
CX 6.0 MPAM	47,5																
<p>CX 3.0 / 4.0 / 6.0 MPQF</p> <table> <tr> <th>part No.</th><th>A (mm)</th></tr> <tr> <td>CX 3.0 MPQF</td><td>44,4</td></tr> <tr> <td>CX 4.0 MPQF</td><td>43,4</td></tr> <tr> <td>CX 6.0 MPQF</td><td>46,4</td></tr> </table>	part No.	A (mm)	CX 3.0 MPQF	44,4	CX 4.0 MPQF	43,4	CX 6.0 MPQF	46,4	<p>CX 3.0 / 4.0 / 6.0 MPAF</p> <table> <tr> <th>part No.</th><th>A (mm)</th></tr> <tr> <td>CX 3.0 MPAF</td><td>44,4</td></tr> <tr> <td>CX 4.0 MPAF</td><td>44,0</td></tr> <tr> <td>CX 6.0 MPAF</td><td>46,4</td></tr> </table>	part No.	A (mm)	CX 3.0 MPAF	44,4	CX 4.0 MPAF	44,0	CX 6.0 MPAF	46,4
part No.	A (mm)																
CX 3.0 MPQF	44,4																
CX 4.0 MPQF	43,4																
CX 6.0 MPQF	46,4																
part No.	A (mm)																
CX 3.0 MPAF	44,4																
CX 4.0 MPAF	44,0																
CX 6.0 MPAF	46,4																
<p>CX 3.0 / 4.0 / 6.0 MPQV</p> <table> <tr> <th>part No.</th><th>A (mm)</th></tr> <tr> <td>CX 3.0 MPQV</td><td>48,7</td></tr> <tr> <td>CX 4.0 MPQV</td><td>56,2</td></tr> <tr> <td>CX 6.0 MPQV</td><td>58,2</td></tr> </table>	part No.	A (mm)	CX 3.0 MPQV	48,7	CX 4.0 MPQV	56,2	CX 6.0 MPQV	58,2	<p>CX 3.0 / 4.0 / 6.0 MPAV</p> <table> <tr> <th>part No.</th><th>A (mm)</th></tr> <tr> <td>CX 3.0 MPAV</td><td>48,7</td></tr> <tr> <td>CX 4.0 MPAV</td><td>55,8</td></tr> <tr> <td>CX 6.0 MPAV</td><td>58,2</td></tr> </table>	part No.	A (mm)	CX 3.0 MPAV	48,7	CX 4.0 MPAV	55,8	CX 6.0 MPAV	58,2
part No.	A (mm)																
CX 3.0 MPQV	48,7																
CX 4.0 MPQV	56,2																
CX 6.0 MPQV	58,2																
part No.	A (mm)																
CX 3.0 MPAV	48,7																
CX 4.0 MPAV	55,8																
CX 6.0 MPAV	58,2																

CX 03 P - CX 02 P for pneumatic contacts

The modular inserts must be installed in suitable frames which are then mounted in traditional enclosures or in COB panel support.
Single-sized modular units may be directly mounted inside MIXO ONE enclosures.

frames for modular units	page: 316 - 317
MIXO ONE enclosures	369

modular units with 3 seats





modular units with 2 seats



description	part No.	part No.
-------------	----------	----------

without contacts (to be ordered separately) inserts with 3 housings for tube Ø 1,6 - 4,0	CX 03 P	
without contacts (to be ordered separately) inserts with 2 housings for tube Ø 6,0		CX 02 P

- MIXO INSERTS
-   certified
 - insulation resistance: $\geq 10\text{ G}\Omega$
 - made of self-extinguishing thermoplastic resin UL 94V-0
 - mechanical life: ≥ 500 cycles

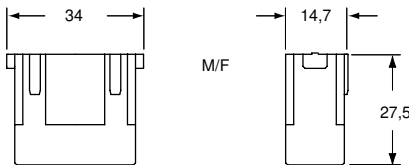
Use of units for pneumatic contacts

- identical male and female modular units
- pneumatic contacts for pressure values up to 8 bar, for use with clean and dry compressed air
- use of tubes with Ø 1,6 - 3 - 4 and 6 mm, and possible replacement of tubes with assembled units
- possibility of using tubes with different diameters in the same modular unit
- female contacts with or without closing valve
- working temperature range - 40 °C ÷ + 80 °C

Warnings:

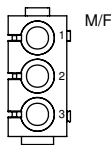
CRM/F CX code pins and guides must be used for pneumatic contacts modules.
These pins also provide coding if pneumatic contacts modules are used exclusively.

The use of pneumatic contacts requires an appropriate filtering and dehydration system to prevent dangerous condensation.
Contacts may be used for pressure values of up to a maximum of 8 bars/116 psi.

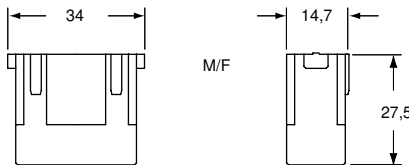


contacts side (front view)

side with reference arrow ▲

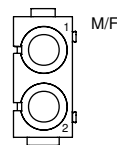


- 1 frame slot



contacts side (front view)

side with reference arrow ▲



- 1 frame slot

**pneumatic contacts
with or without closing valve**



description

part No.

female contacts without closing valve

- for tubes with internal \varnothing 1,6 mm
- for tubes with internal \varnothing 3 mm
- for tubes with internal \varnothing 4 mm
- for tubes with internal \varnothing 6 mm

CX 1.6 PF
CX 3.0 PF
CX 4.0 PF
CX 6.0 PF

male contacts without closing valve

- for tubes with internal \varnothing 1,6 mm
- for tubes with internal \varnothing 3 mm
- for tubes with internal \varnothing 4 mm
- for tubes with internal \varnothing 6 mm

CX 1.6 PM
CX 3.0 PM
CX 4.0 PM
CX 6.0 PM

female contacts with closing valve

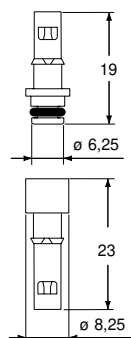
- for tubes with internal \varnothing 1,6 mm
- for tubes with internal \varnothing 3 mm
- for tubes with internal \varnothing 4 mm
- for tubes with internal \varnothing 6 mm

CX 1.6 VC
CX 3.0 VC
CX 4.0 VC
CX 6.0 VC

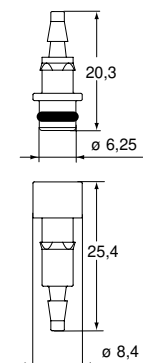
male contact

(use contacts without closing valve)

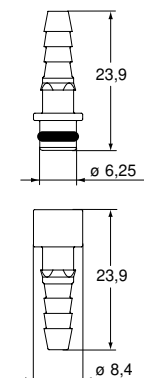
CX 1.6 PF/PM/VC



CX 3.0 PF/PM/VC



CX 4.0 PF/PM/VC



CX 6.0 PF/PM/VC

