

Compact overflow detector MAXIMAT CX



- All-plastic versions
- Integrated transmitter and connection for test button
- No moving parts
- For storage tanks
- NPN / PNP interface

AGREEMENTS

- General building supervisory approval issued by DIBt: Z-65.13-494
- Certification of Product Approval by SVTI ASIT: KVV-Nr. 302.019.19
- Vlare II (Corcon bvba) certificate: CP0914/3072-HCC001
- GOST-Clearance Certificate: 42 1300/ 9026 10 290 0

APPLICATION

Overflow detector in accordance with the German Water Resources Act (WHG) for containers used for storing, filling and handling water-polluting, electrically conductive, non-flammable liquids.

DESCRIPTION

MAXIMAT CX compact overflow detectors are level limit switches which are used to prevent overfilling of containers with water polluting liquids. When an electrically conductive liquid comes into contact with the detector stem, the integrated electronics respond by interrupting the continuous output signal. This signal can be read out from the system controller as an acoustic and optical alarms and, if required, can be used to cause an emergency shutdown of the filling process.

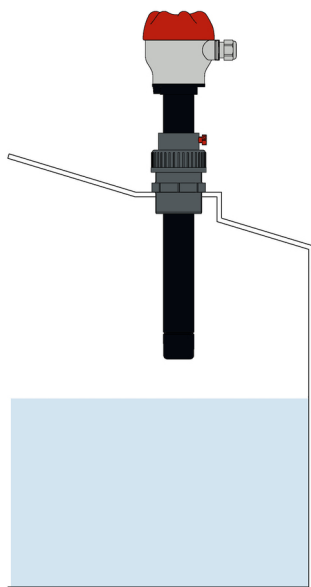
TECHNICAL FEATURES

| | |
|---------------------|--|
| Detection | Capacitive high-frequency sensor, fail-safe detector |
| Ambient temperature | -20 ... +60 °C |
| Operating pressure | Atmospheric; Limits: 0.8 to 1.1 bar |
| Housing head | PBT, fibre-glass reinforced |
| Protection | IP65 according to EN 60 529 |
| Fittings | See the table "ordering information" |
| Power supply | 15 ... 27 V DC |
| Consumption | < 1 W |
| Outputs | Potential-free Reed contact for low voltage (Normally Closed, it opens when alarm occurs) Rated: Max. 50 V AC / DC, Max. 0.5 A, Max. 10 VA, convenient for operating with a coupling relay or PLC, signaling device TC4 / TC1 or CST unit. 2-wire alarm output reporting with transmitter MAXIMAT SHR C |

Note: Simultaneous use of both outputs is not possible.

| | |
|---------------------|--|
| Terminals | Screw terminals, cable max. 2.5 mm ² |
| Additional function | Connection of an external test button (potential-free contact), for a complete diagnostic of the device integrity (connection loops, electronics). |
| Connection options | Alarm units: MAXIMAT TC1 / TC4 Coupling relay: CST Transmitter: MAXIMAT SHR C Automation with PLC |

WHG



TECHNICAL FEATURES (continued)

EC Conformity: The instrument meets the legal requirements of the current European Directives.

ORDERING INFORMATION

Compact overfill detector MAXIMAT CX

20 Stem O.D. 20mm

40 Stem O.D. 40mm

K with connection head

0 without connection head

Materials

4 PE (Standard)

2 PP (on request)

3 PVDF (on request)

Trigger point

V Adjustable

N Fixed point

Fittings

U2 CX40: BSP 2" sleeve nut for weld-on union (V type)

U254 CX40: BSP 2" sleeve nut for PE weld-on union (V type)

U252 CX40: BSP 2" sleeve nut for PP weld-on union (V type)

U253 CX40: BSP 2" sleeve nut for PVDF weld-on union (V type)

G2 CX40: BSP 2" process interface, external thread (N & V types)

F40 CX40: Flange DN 40, PN 10 (N & V types)

F50 CX40: Flange DN 50, PN 10 (N & V types)

G1 CX20: BSP 1" process interface, external thread (N & V types)

G11/4 CX20: BSP 1 1/4" process interface, external thread (V type)

G11/2 CX20: BSP 1 1/2" process interface, external thread (V type)

F25 CX20: Flange DN 25, PN 10 (V type)

F32 CX20: Flange DN 32, PN 10 (V type)

Fitting materials

1 PVC (Standard)

4 PE

2 PP

3 PVDF

L Distance (mm), from sealing surface *

MAXIMAT CX

Other versions: On request.

Please contact us.

(V): Adjustable process connection (Adjustable trigger point distance)

(N): Not adjustable process connection (Fixed trigger point distance)

Note:

Not all materials can be combined with each other; This applies for all non-adjustable versions on above table.

The overall length of the stem is 50 mm longer than the distance "L" plus, the height of the adjusting threaded fitting.

During commissioning, the triggering level "A" can be adjusted by 50 mm downwards (i.e. lower switching point).

Distance "L" is the desired trigger point measured as of the sealing surface.

* Min. installation length for O.D. 40 and 20 mm versions = 150 mm

* Max. installation length for O.D. 40 mm versions = 1000 mm

* Max. installation length for O.D. 20 mm versions = 500 mm

Larger lengths and version with double cable gland: On request.

INTERNATIONAL

Compact overfill detector
MAXIMAT CX

16-10-2019

D-556.06-EN-AC

LEV

556-06/2

ORDERING INFORMATION (continued)

Standard versions

| Code | Reference | Description |
|---------|-----------------------------------|---|
| 556 602 | MAXIMAT CX 40 K 4 V G2 1 L= 200mm | Terminal housing, O.D. 40 mm, PE, adjustable, BSP 2" PVC, L = 200mm |
| 556 604 | MAXIMAT CX 40 K 4 V G2 1 L= 300mm | Terminal housing, O.D. 40 mm, PE, adjustable, BSP 2" PVC, L = 300mm |
| 556 606 | MAXIMAT CX 40 K 4 V G2 1 L= 400mm | Terminal housing, O.D. 40 mm, PE, adjustable, BSP 2" PVC, L = 400mm |
| 556 608 | MAXIMAT CX 40 K 4 V G2 1 L= 500mm | Terminal housing, O.D. 40 mm, PE, adjustable, BSP 2" PVC, L = 500mm |
| 556 662 | MAXIMAT CX 20 K 4 V G1 1 L= 200mm | Terminal housing, O.D. 20 mm, PE, adjustable, BSP 1" PVC, L = 200mm |
| 556 664 | MAXIMAT CX 20 K 4 V G1 1 L= 300mm | Terminal housing, O.D. 20 mm, PE, adjustable, BSP 1" PVC, L = 300mm |
| 556 666 | MAXIMAT CX 20 K 4 V G1 1 L= 400mm | Terminal housing, O.D. 20 mm, PE, adjustable, BSP 1" PVC, L = 400mm |
| 556 668 | MAXIMAT CX 20 K 4 V G1 1 L= 500mm | Terminal housing, O.D. 20 mm, PE, adjustable, BSP 1" PVC, L = 500mm |

DIMENSIONS

Examples of common models

