

Compact overfill 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
- Vlare II (Corcon bvba) certificate: CP0724/3140-HCC001

APPLICATION

Overfill 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 overfill 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.

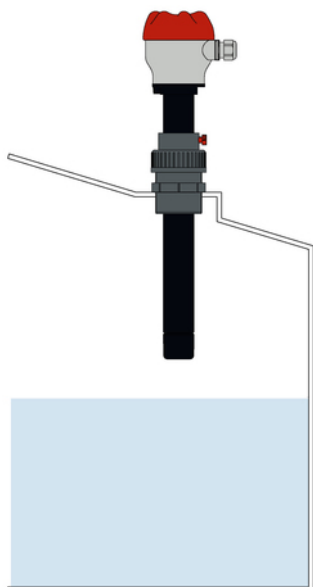
TECHNICAL FEATURES

Detection	Capacitive high-frequency sensor, fail-safe detector
Operating/	
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



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01-09-2025

D-556.06-EN-AG

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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 (for adjustable version only)

- 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

Other lengths and versions on request.

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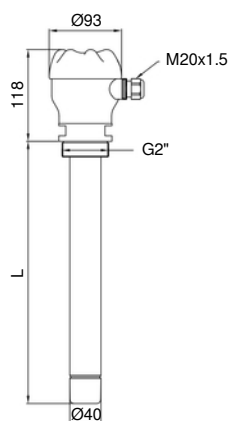
ORDERING INFORMATION (continued)

Standard versions

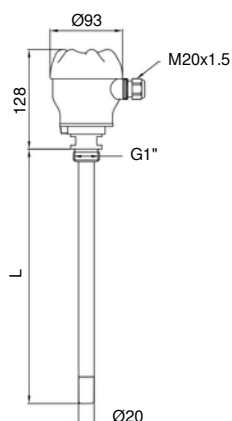
Code	Reference	Description
556 602	MAXIMAT CX 40 K 4 V G2 1 L= 200mm	Terminal housing, O.D. 40 mm, PE, adjustable, BSP 2" PVC, L = 200mm
556 604	MAXIMAT CX 40 K 4 V G2 1 L= 300mm	Terminal housing, O.D. 40 mm, PE, adjustable, BSP 2" PVC, L = 300mm
556 606	MAXIMAT CX 40 K 4 V G2 1 L= 400mm	Terminal housing, 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

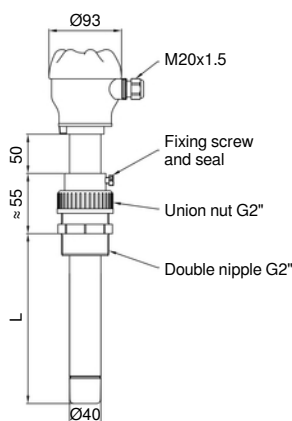
Examples of common models



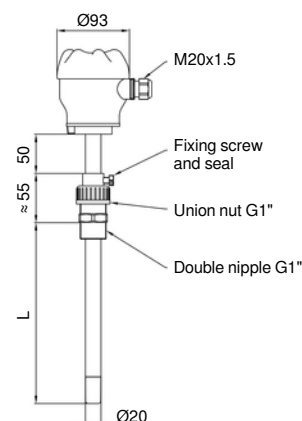
CX 40 K ... N G2



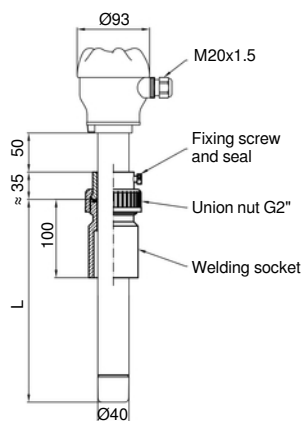
CX 20 K ... N G1



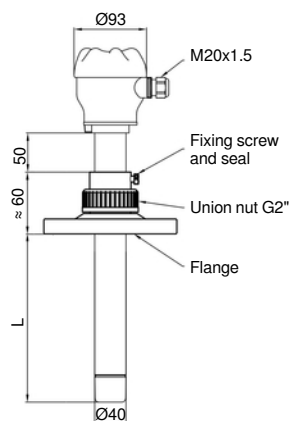
CX 40 K ... V G2



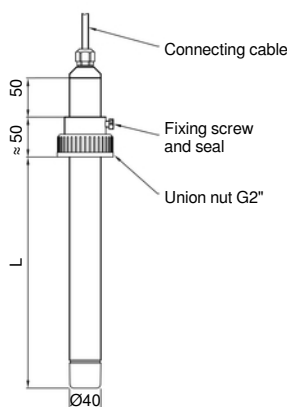
CX 20 K ... V G1



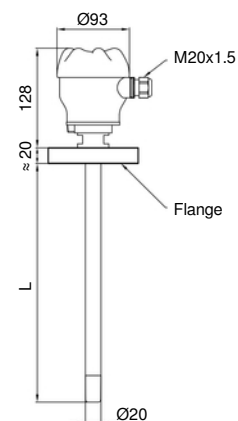
CX 40 K ... V U2...



CX 40 K ... V F...



CX 40 0 ... V U2



CX 20 K ... N F...

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