Type MR783 Magnetic Level Switches

Models MR7831, MR783 PVC, MR783 PVDF

Features and Benefits

- Compact size easy to mount in multiple locations on the tank
- Versatile construction 316SS, PVC or PVDF compatible with many fluids
- · Certified explosion-proof or intrinsically safe

Description

The float unit can be directly mounted on a tank through a screwed or flanged connection. A second application is available as a magnetic switch indicator while fitted on the side of a magnetic level gauge for example. The internal float of the gauge will directly activate the contacts into the tube.

This flow switch consists of:

- A guide tube fitted with one or more magnetic contacts positioned as required
- One float fitted with a magnet
- · Connection: screwed plug or flange
- A sealed electric junction box complete with strip and cable gland.

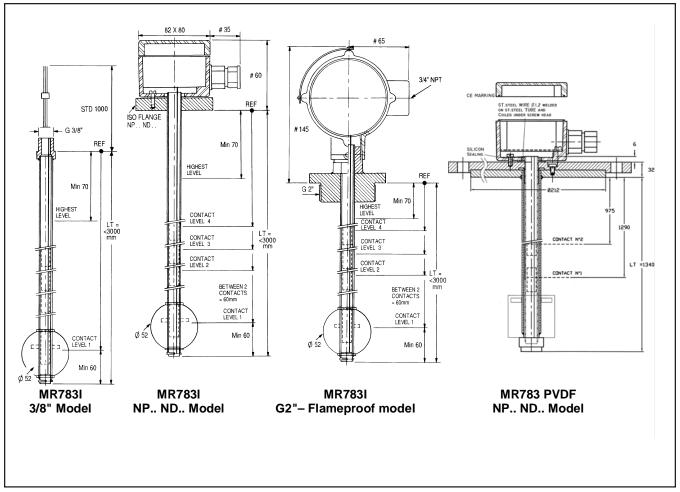
Materials of Construction

All Wetted parts (guide tube, float, screwed connectors or flange): MR783 1: stainless steel 316L

MR783 PVC: PVC MR783 PVDF: PVDF







Model MR783 Dimensions

Туре	MR 783 I (ST-Steel)	MR783 PVC	MR 783 PVDF
Min. Specific gravity	0.75	0.8	0.8
Max. temperature	100°C (212°F)	40°C (104°F)	70°C (158°F)
Max. Pressure	32 bar*(464 psi)	3 bar (44 psi)	3 bar (44 psi)

^{*} For flanged instrument version, The nominal pressure of the flange should be in accordance with the operating pressure

For all inquiries or order placements, the following information is required:

Product Certifications and Specifications

Connections:

- Threaded plug 2" BSPP or 2" NPT or on request (see code for ordering)
- Flange PN. . DN . . according to 29203 standard
- 3/8" gas connecting
- Others on request

Detection boxes type:

Aluminium alloy standard

Code: H3

- Aluminium box (82mm x 80mm)
- Housing protection: IP 65
- Cable gland: Polycarbonate material, fitted with retaining ring and shearing shield (wiring from 8 mm to 10mm) Other in option
- Electrical connection on screw electrical terminals (suitable for 1,5mm² electrical wires)

Aluminium alloy Flameproof version (ATEX - IECEx approved)

Code: H2

Detection box made of light aluminium alloy

- ATEX / Flame-proof certified : LCIE01ATEX 6060X IECEx LCI 09.0017X
- Marking (60081 (x) II 2 G EExd II C T6
 Cable gland: EExd made of nicheled brass, suitable for armoured cables

from 5mm to 12mm diameter size.

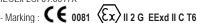
Electrical connection on screw electrical terminals (suitable for 1,5mm² electrical wires)

Stainless steel Flameproof version (ATEX – IECEx approved)

Code: H5

Detection box made of 316L stainless steel.

- ATEX / Flame-proof certified : LCIE01ATEX 6060X IECEx LCI 09.0017X



- Cable entry M20 x 1.5
- Cable gland on request.
- Electrical connection on screw electrical terminals (suitable for 1,5mm² electrical wires)

Aluminium alloy standard type (ATEX – IECEx approved)

Code: H4

- Aliminium box; Housing protection: IP 65

- ATEX / Flame-proof certified : LCIE01ATEX 6034X

IECEx LCI 09.0017X

- Marking : $\langle \xi x \rangle$ II 2 G Exia II C T6-T-T4

- Cable gland: EExe Pg11made of blue polyamide (d=6 to 10 mm)

- Electrical settings

 $Ui \le 30V$; Ii = 50mA; Pi = 0.4W;

Ci = 0nF; Li=0mH

Stainless steel Flameproof version (ATEX – IECEx approved) Detection box made of 316L stainless steel.

ATEX / Flame-proof certified : LCIE01ATEX 6034X IECEx LCI 09.0017X

Marking: CE 0081

- Cable entry M20 x 1.5 Cable gland on request.

Electrical connection on screw electrical terminals (suitable for 1,5mm²

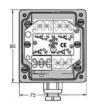
II 2 G Exia II C T6-T5-T4

Code: H6

Contacts

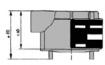
Switches

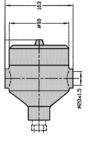
- ILS / change over reed switches types
- Max. current : 1 A
- Max. voltage: 250V DC or AC
- Max. power : 60VA/ 30W (resistive charge)
 - Quantity: MR783 : 1up to 4



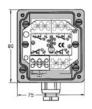




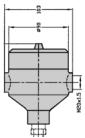






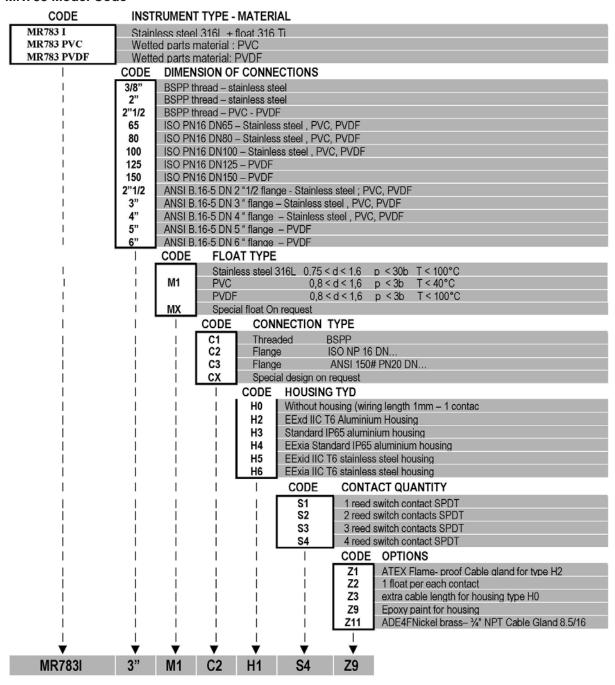








MR783 Model Code



Due to Brooks Instrument's commitment to continuous improvement of our products, all specifications are subject to change without notice.

TRADEMARKS

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