

# PROCESS AUTOMATION



LIMIT VALUE DETECTION WITH VIBRACON M

A SOLUTION FOR ALL AREAS OF INDUSTRY



# LIMIT VALUE DETECTION WITH VIBRACON M – A SOLUTION FOR ALL AREAS OF INDUSTRY

Are you looking for all-around performance?  
Something that will take care of all your point  
level applications? Look no further:  
Pepperl+Fuchs' new Vibracon M solves your  
problems!

Allround

The Vibracon M is suitable for applications in a variety of industries, including chemical, pharmaceutical, water treatment and food processing. Vibracon M is designed for use in intrinsically safe, flame-proof and explosion-proof installations, and is suitable for both hazardous and non-hazardous locations.

The Vibracon M is also impervious to temperature fluctuations, high-pressure cleaning, sterilization and disinfection processes as well as the formation of foam. It is not affected by alternating media, the build-up of sediment, abrasion, turbulence, solid matter or gas components.

## ADVANTAGES:

- Commissioning without adjustment
- Accuracy to millimetres and constant switch point
- Maintenance-free long life
- Robust housings in aluminium, plastic or stainless steel
- Various electrical outputs:  
DC pnp, AC-2 wire, AC/DC relay, NAMUR
- Limitless application possibilities by using compact or extended versions (from 40 mm to 3 m)
- Large selection of process connections
- National and international approvals (Exia, Exd, WHG, FM, CSA, EHEDG...)



NAMUR



## Selection electrical

- 2-wire connection
- 3-wire DC connection
- Universel connection  
2 relay outputs
- NAMUR  
(EN 60947-5-1)

Naturally, the appropriate transformer isolated amplifiers and interface modules for Vibracon M are also available from Pepperl+Fuchs, e.g.:

- KFD2-SR2-Ex1.W  
1-Channel Transformer  
Isolated Amplifier
- KSD2-BI-Ex2  
Remote Process Interface  
with binary input



# Hygiene

# UR

## Selection of housing materials

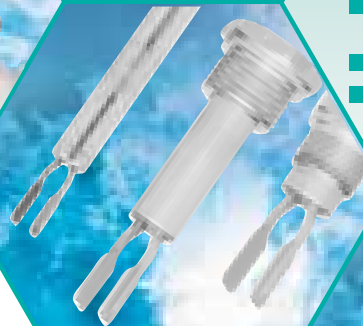
- Plastic
- High-grade steel
- Aluminium (also for EEx d)

**TO MATCH YOUR  
REQUIREMENTS –  
THE CHOICE  
IS YOURS:**

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output

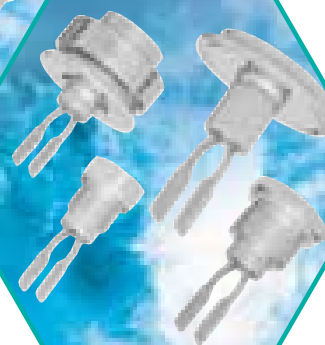
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## Selection of process connections

- Process connections from 3/4"
- Cylindrical and conical threads
- Various hygienic and aseptic connections
- Flange from DN 25/1
- Tube extension up to 3 m



# modular



# TECHNICAL DATA

Product code	LVL-M1	LVL-M2	LVL-M2C	LVL-M1H	LVL-M2H
	compact construction	with tube extension up to 3 m	with tube extension coated version (ECTFE)	Compact construction food industry version	With tube extension food industry version
					
Certificate	Overfill protection for liquids in accordance with WHG ATEX (EEx ia, EEx d) FM IS, XP			EHEDG, 3A, expert assessment for hygienic applications	
Connection Technique	2-wire AC connection (Electronic assembly AC) • 3-wire DC connection (Electronic assembly E5) Universal connection, 2 relay outputs (Electronic assembly WA) • Output 8/16 mA (Electronic assembly SI) NAMUR output (Electronic assembly N1, N2)				
Process connections	G ¾" BSP, G1" BSP (DIN ISO 228/1), R ¾" BSPT (DIN 2999), ¾" NPT (ANSI B 1.20.1), 1" NPT Flanges to DIN, ANSI, JIS from DN 25/1" Process material: 1.4435, Alloy C4 or Halar coating			Various hygienic and aseptic connections (Tricomp®-coupling, milk tube screwed connection, Varivent®, DRD, SMS, flush front connection Flanges to DIN, ANSI, JIS from DN 25/1" Process material: 1.4435 or Alloy C4	

## Ambient conditions:

- Ambient temperature:  
–50 °C ... +70 °C
- Climatic classification:  
Climatic protection to IEC 68
- Protection class:
  - Plastic/high-grade steel housing, aluminium housing  
IP 66/IP 67 to EN 60529
  - Aluminium housing (also for EEx d)  
IP 66/IP 68 to EN 60529
- EMC to EN 61326-1:  
RFI/EMC immune up to 10 V/m

## Measured media conditions:

- Temperature of measured media: –40 °C ... +150 °C
- Pressure of media: –1 bar ... +64 bar
- Aggregate condition: Liquid
- Density: min. 0.5 g/cm<sup>3</sup>
- Viscosity: up to 10,000 mm<sup>2</sup>/s
- Solid material components:  
max. diameter 5 mm
- Temperature shock: max. 120 °C/s

<http://www.pepperl-fuchs.com>

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