



LMK 358

Detachable Stainless Steel Probe

Ceramic Sensor

accuracy according to IEC 60770: standard: 0.35 % FSO option: 0.25 % FSO

Nominal pressure

from 0 ... 40 cmH₂O up to 0 ... 100 mH₂O

Output signals

2-wire: 4 ... 20 mA 3-wire: 0 ... 10 V others on request

Special characteristics

- cable assembly and sensor head detachable
- diameter 39.5 mm
- especially suitable for sewage, viscous and pasty media

Optional versions

- ► IS-versionEx ia = intrinsically safe for gas and dust
- cable protection with stainless steel corrugated pipe
- diaphragm 99.9 % Al₂O₃
- different kinds of cables and elastomers

The detachable stainless steel probe LMK 358 has been designed for level measurement in waste water, waste and higher viscosity media. Basic element is a capacitive ceramic sensor.

In order to facilitate stock-keeping and maintenance the sensor head is plugged to the cable assembly with a connector and can be changed easily.

Preferred areas of use are



Water

ground water level measurement rain spillway basin



<u>Sewage</u>

waste water treatment water recycling

Fuel and oil



level monitoring in open tanks with low filling heights fuel storage tank farms biogas plants



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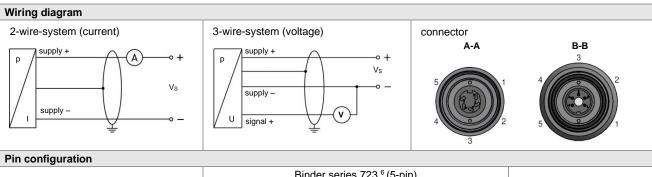




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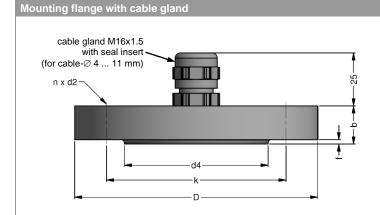
Input pressure range														
Nominal pressure gauge	[bar]	0.04	0.06	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10
Level	[mH ₂ O]	0.4	0.6	1	1.6	2.5	4	6	10	16	25	40	60	100
Overpressure	[bar]	2	2	4	4	6	6	8	8	15	25	25	35	35
Max. ambient pressure (housing): 40 bar														





Pin configuration						
Electrical connection	Binder series 7	cable colours (IEC 60757)				
Liectrical confidention	2-wire	3-wire	cable colours (IEC 60737)			
Supply +	3	3	WH (white)			
Supply –	1	4	BN (brown)			
Signal + (only for 3-wire)	-	1	GN (green)			
Shield	5	5	GNYE (green-yellow)			
⁶ if detached						

Dimensions (mm / in) standard option Ø7,4 [0.29] PG16 Ø7,4 [0.29] Ø17,4 [0.69] Ø29,5 [1.16] Ø29,5 [1.16] Ø26,2 [1.03] •Ø26 [1.03] **+** Ø35 [1.38] −Ø35 [1.38] 164 [6.46]-177 [6.97] 89,5 [3.52] --- Ø39,5 [1.56]--Ø39,5 [1.56] protection cap sensor head corrugated pipe removable and cable detached



dimensions in mm					
size	DN25 /	DN50 /	DN80 /		
Size	PN40	PN40	PN16		
b	18	20	20		
D	115	165	200		
d2	14	18	18		
d4	68	102	138		
f	2	3	3		
k	85	125	160		
n	4	4	8		

Technical data	
Suitable for	all probes
Flange material	stainless steel 1.4404 (316L)
Material of cable gland	standard: brass, nickel plated on request: stainless steel 1.4305 (303); plastic
Seal insert	material: TPE (ingress protection IP 68)
Hole pattern	according to DIN 2507

Hole pattern	according to Diff 2007			
Ordering type		Ordering code	Weight	
DN25 / PN40 with cable gland bra	ss, nickel plated	ZMF2540	1.4 kg	
DN50 / PN40 with cable gland brass, nickel plated		ZMF5040	3.2 kg	
DN80 / PN16 with cable gland bra	ss, nickel plated	ZMF8016	4.8 kg	

Terminal clamp



Technical data			
Suitable for	all probes with cable Ø 5.5 10.	5 mm	
Material of housing	standard: steel, zinc plated	optionally: stainless steel	1.4301 (304)
Material of clamping jaws and positioning clips	PA (fibre-glass reinforced)		
Dimensions (mm)	174 x 45 x 32		
Hook diameter	20 mm		

Ordering type	Ordering code	Weight	
Terminal clamp, steel, zinc plated	Z100528	approx. 160 g	
Terminal clamp, stainless steel 1.4301 (304)	Z100527	арргох. 160 д	

Display program

CIT 200 Process display with LED display

CIT 250 Process display with LED display and contacts

CIT 300 Process display with LED display, contacts and analogue output

CIT 350 Process display with LED display, bargraph, contacts and analogue output

CIT 400 Process display with LED display, contacts, analogue output and Ex-approval

CIT 600 Multichannel process display with graphics-capable LC display

CIT 650 Multichannel process display with graphics-capable LC display and datalogger

CIT 700 / CIT 750 Multichannel process display with graphics-capable TFT monitor, touchscreen and contacts

PA 440 Field display with 4-digit LC display

For further information please contact our sales department or visit our homepage: http://www.bdsensors.de



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BD SENSORS
pressure measurement

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Ordering code LMK 358 LMK 358 Pressure 4 4 5 4 4 6 in mH₂O Input [mH₂O] [bar] 0 4 0 0 0.4 0.04 0.6 0.06 0 6 0 0 1 0 0 0 1.0 0.10 6 0 0 1.6 0.16 2 5 0 4 0 0 0 2.5 0.25 4.0 0.40 0 0 6 0 6.0 0.60 0 10 1.0 1 1 1 1 6 0 2 5 0 4 0 0 6 0 0 1 0 0 9 9 9 16 1.6 25 2.5 40 4.0 1 60 6.0 1 2 100 10 customer consult stainless steel 1.4404 (316L) 1 customer consult Diaphragm ceramics Al₂O₃ 96 % 2 C ceramics Al₂O₃ 99.9 % customer consult Output 4 ... 20 mA / 2-wire 1 0 ... 10 V / 3-wire 3 intrinsic safety 4 ... 20 mA / 2-wire Ε customer 9 consult FKM 1 EPDM 9 customer consult Electrical connection PVC-cable (grey, Ø 7.4 mm) PUR-cable (black, Ø 7.4 mm) FEP-cable (black, Ø 7.4 mm) 2 3 TPE-U-cable (blue, Ø 7.4 mm) customer 9 consult Accuracy standard 0.35 % FSO 3 2 option 0.25 % FSO © 2020 BD|SENSORS GmbH - The specifications given in this document represent the state of engineering the time of customer consult Cable length in m 9 9 9 Special version standard 0 0 0 cable protection with stainless steel corrugated pipe 0 3 9 9 9 consult with pipe length in m customer 9 9 9 consult

modifications to the

We reserve the right to make

of publishing.

¹ shielded cable with integrated ventilation tube for atmospheric pressure reference