



LMK 351

Screw-in Transmitter

Ceramic Sensor

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

Nominal pressure

from 0 ... 40 mbar up to 0 ... 20 bar

Output signal

2-wire: 4 ... 20 mA 3-wire: 0 ... 20 mA / 0 ... 10 V

others on request

Product characteristics

- pressure port PVDF-version for aggressive media
- pressure port G 1 1/2" for pasty and polluted media

Optional versions

- IS-version Ex ia = intrinsically safe for gases and dust
- diaphragm 99.9 % Al₂O₃
- customer specific versions

The screw-in transmitter LMK 351 has been designed for measuring small system pressure and level measurement in container. The LMK 351 is based on an own-developed capacitive ceramic sensor element. Usage in viscous and pasty media is possible because of the flush mounted sensor.

For the usage in aggressive media a pressure port in PVDF and the diaphragm in Al₂O₃ 99.9 % is available. An intrinsically safe version completes the range of possibilities.

Preferred areas of use are



Plant and machine engineering



Environmental engineering (water - sewage - recycling)

Preferred used for



Fuel and oil



Viscous and pasty media











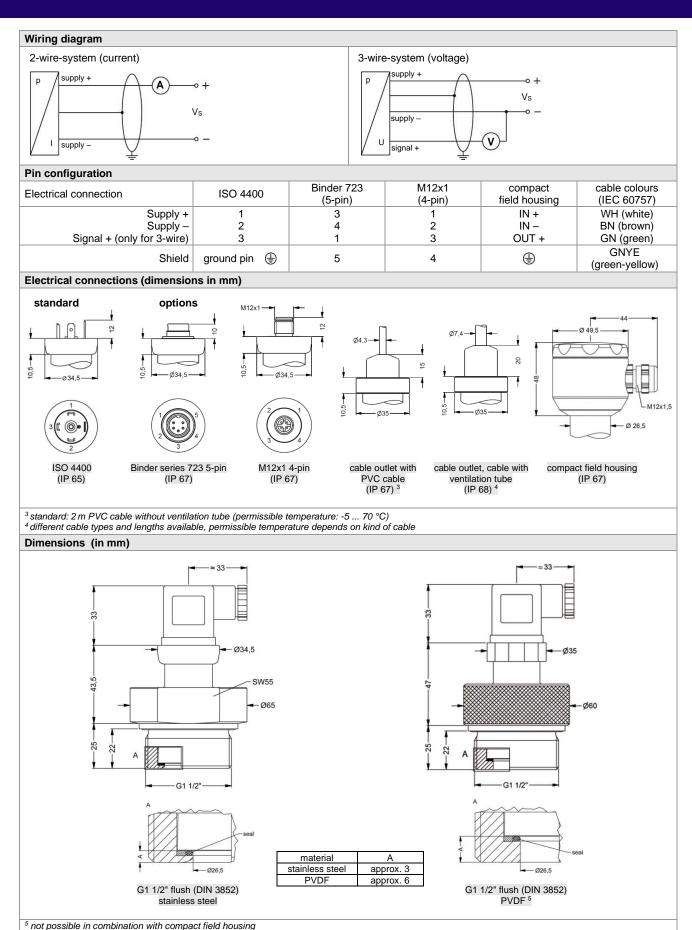


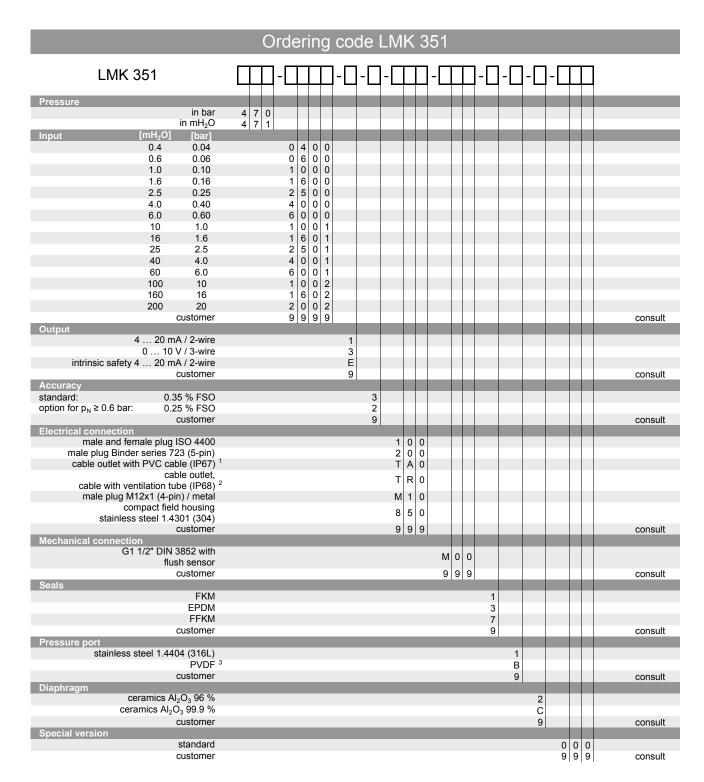
Pressure ranges																
Nominal pressure	[bar]	0.04	0.06	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6	10	16	20
Level	[mH ₂ O]	0.4	0.6	1	1.6	2.5	4	6	10	16	25	40	60	100	160	200
Overpressure	[bar]	2	2	4	4	6	6	8	8	15	25	25	35	35	45	45
Permissible vacuum	[bar]	-0	.2	-0.3			-0.5			-1						

-0.2 -0.3 -0.5	-1				
2-wire: 4 20 mA / Vs = 9 32 Vpc					
0 Wile. 0 10 V / VS = 12.0 02 VDC					
standard: < + 0.35 % ESO	option for $p_N \ge 0.6$ bar: $\le \pm 0.25$ % FSO				
	voltage 3-wire: $R_{min} = 10 \text{ k}\Omega$				
	load: 0.05 % FSO / kΩ				
	10au. 0.03 /61 30 / K22				
	max. response time: 380 msec				
<u> </u>	max. response time. 300 msec				
point adjustment (non intearry, hysteresis, repeatability)					
< + 1 % FSO					
20 00 0					
medium: -40 125 °C					
storage: -40 100 °C					
permanent					
•					
and an					
10 a RMS (20 2000 Hz)	according to DIN EN 60068-2-6				
	according to DIN EN 60068-2-27				
100 g / 1 111000	according to Birt Lit occord L Li				
standard: stainless steel 1 4404 (316L)	option: PVDF				
` ,	option: PVDF				
` ,	•				
	, blass, flicker plated (clamping range 2 6 film)				
FFKM -15 125 °C					
standard: ceramics Al ₂ O ₃ 96 %	options: ceramics Al ₂ O ₃ 99.9 %				
pressure port, seals, diaphragm					
IBExU05ATEX1070 X					
stainless steel-pressure port with connector:					
zone 0: II 1G Ex ia IIC T4 Ga					
zone 0/1: II 1/2G Ex ia IIC T4 Ga/Gb					
zone 20/21: II 1/2D Ex ia IIIC T110 °C Da/I	Dh				
$U_i = 28 \text{ V}, I_i = 93 \text{ mA}, P_i = 660 \text{ mW}, C_i = 14 \text{ nF}, L_i \approx 100 \text{ in zone } 0$: -20 60 °C for $P_{atm} = 0.8 \text{ bar up}$	= 0 μH, C _{gnd} = 27 nF				
U_i = 28 V, I_i = 93 mA, P_i = 660 mW, C_i = 14 nF, L_i ≈	ε 0 μH, C _{gnd} = 27 nF to 1.1 bar				
$\begin{array}{llllllllllllllllllllllllllllllllllll$	ε 0 μH, C _{gnd} = 27 nF o to 1.1 bar line / signal line: 220 pF/m				
$\begin{array}{llllllllllllllllllllllllllllllllllll$	ε 0 μH, C _{gnd} = 27 nF o to 1.1 bar line / signal line: 220 pF/m				
$\begin{array}{llllllllllllllllllllllllllllllllllll$	ε 0 μH, C _{gnd} = 27 nF o to 1.1 bar line / signal line: 220 pF/m				
$\begin{array}{llllllllllllllllllllllllllllllllllll$	ε 0 μH, C _{gnd} = 27 nF o to 1.1 bar line / signal line: 220 pF/m				
$\begin{array}{llllllllllllllllllllllllllllllllllll$	ε 0 μH, C _{gnd} = 27 nF o to 1.1 bar line / signal line: 220 pF/m				
$\begin{array}{llllllllllllllllllllllllllllllllllll$	ε 0 μH, C _{gnd} = 27 nF o to 1.1 bar line / signal line: 220 pF/m				
$\begin{array}{llllllllllllllllllllllllllllllllllll$	ε 0 μH, C _{gnd} = 27 nF o to 1.1 bar line / signal line: 220 pF/m				
	permanent no damage, but also no function emission and immunity according to EN 61326 10 g RMS (20 2000 Hz) 100 g / 1 msec standard: stainless steel 1.4404 (316L) standard: stainless steel 1.4404 (316L) stainless steel 1.4301 (304); cable gland M12x1.5 FKM -40 125 °C FFKM -15 125 °C EPDM -40 125 °C standard: ceramics Al ₂ O ₃ 96 % pressure port, seals, diaphragm .20 mA / 2-wire) IBExU05ATEX1070 X stainless steel-pressure port with connector: zone 0:				



SensaCo Ltd.





¹ standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 ... 70 °C); others on request

² code TR0 = PVC cable, cable with ventilation tube available in different types and lengths

 $^{^3}$ not possible in combination with compact field housing; permissible medium temperature: -30 ... 60 $^\circ$ C