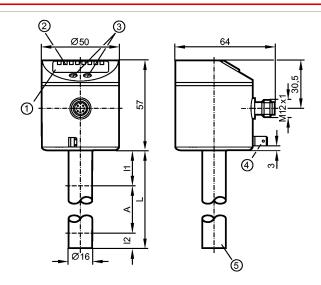
LL0728B-B-00KVPKG/US



Level sensors

Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.



- 1: 4-digit alphanumeric display
- 2: status LEDs
- 3: Programming buttons
- 4: Housing connection (flat-pin connector 6.3 mm following DIN 46244)
- 5: Position of the temperature measuring element





1.51.12
Product characteristics
Electronic level sensor
with leakage monitoring
Quick disconnect
4 switching outputs:
1 operating output
1 output sudden leakage
and minimum level alarm
1 output progressive leakage
1 overflow output
Temperature indication
-10100 °C
4-digit alphanumeric display
Probe length: L = 728 mm
4-digit alphanumeric display
Application

Application				
Application		Hydrous coolants, oils, water, media similar to water		
Cannot be used for:		extremely conductive and adhering media, granulates and bulk materials, acids and alkalis, food and electroplating applications		
Dielectric constant medium		> 2		
Medium temperature oil				
- Continuous	[°C]	070		
- Short time	[°C]	090		
Medium temperature water and hydrous media	[°C]	035 (LL8024 + E43102: 055) **)		
Medium temperature coolant emulsions	[°C]	035 (LL8024 + E43102: 055) **)		



LL8024 LL0728B-B-00KVPKG/US

Level sensors

Maximum speed of the change of level 300 [mm/s] Electrical data Electrical design DC PNP 18...30 DC 1) Operating voltage [V] Current consumption [mA] < 60 Protection class Ш Reverse polarity protection yes Outputs Output function 4 x normally open / closed programmable [mA] 200 Current rating < 2.5 Voltage drop [V] Short-circuit protection thermal, pulsed Overload protection yes Measuring / setting range 728 Probe length L [mm] Active range A [mm] 585 Inactive range I1 / I2 [mm] 102 / 40 Setting range Set point, SP 60...580 [mm] Reset point, rP [mm] 50...570 [mm] in steps of 10 Hysteresis 10 [mm] 200 - 240 - 280 - 310 - 350 - 390 - 420 - 460 - 500 - 530 - 570 -610 Overflow switch point OP [mm] Hysteresis OP [mm] 4 Accuracy / deviations Deviations (% of value of measuring range) Switch point accuracy ± 5 Repeatability ± 2 Reaction times 3 Power-on delay time [s] Software / programming Programming options hysteresis / window function; N.O. / N.C; position of SP/rP; position of OP; OP adjustment; medium adjustment; offset; display unit; settings for leakage monitoring **Environment** Ambient temperature [°C] 0...60 Storage temperature [°C] -25...80 0.5 (mounted with mounting accessories E43001 - E43007) Maximum vessel pressure [bar] **IP 67** Protection Tests / approvals **EMC** EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-6 HF conducted: 10 V Shock resistance DIN EN 60068-2-29: 15 g (11 ms)





LL8024

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LL0728B-B-00KVPKG/US Level sensors

Vibration resistance		DIN EN 60068-2-6	5 g (102000 Hz)	
MTTF	[Years]		202	
Mechanical data				
Materials (wetted parts)		PP		
Housing materials		stainless steel (3	04S15); FKM; NBR; PBT; PC; PEI; PP; TPE / V	
Weight	[kg]		0.535	
Displays / operating	elements			
Display		Display unit / statu Switching status Level Programming	s 4 x LED green 4 x LED yellow 4-digit alphanumeric display 4-digit alphanumeric display	

Electrical connection

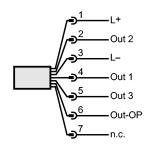
Connection

M12 connector (according to EN 61076-2-101); gold-plated contacts

Wiring

OUT1 = operating output
OUT2 = output sudden leakage /
minimum level alarm
OUT3 = output progressive leakage
OUT-OP = overflow output
n.c. = not connected





Remarks		
Remarks		1) cULus - Class 2 source required **) for water and hydrous media with temperatures > 35 °C install the unit into a climatic tube (order no. E43102)
Pack quantity	[piece]	1

ifm efector, inc. \bullet 1100 Atwater Drive \bullet Malvern \bullet PA 19355 — We reserve the right to make technical alterations without prior notice. — US — LL8024 — 28.05.2015

Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.