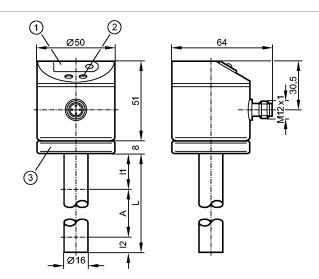


LK0728A-A-00KQPKG/US Level sensors



- 1: 7-segment LED display
 2: Programming buttons
 3: Housing connection with cable lug for cable 1.5 2.5 mm²





Output function Current rating

[mA]

Product characteristics	
Electronic level sensor	
Quick disconnect	
Probe length: L = 728 mm	
2 switching outputs	
7-segment LED display	

7-segment LED display	
Application	
Application	hydrous coolants mineral oils (dielectric constant < 3) water, media similar to water cannot be used for media with separation layers (oil + water; oil/metal layer) cannot be used for acids and alkalis
Dielectric constant medium	> 2
Medium temperature oil [°C	065
Medium temperature water and hydrous media [°C	055 **)
Medium temperature coolant emulsions [°C	055 **)
Medium temperature [°C	035 (LK4024 + E43102: 055) **)
Maximum speed of the change of level [mm/s	300
Electrical data	
Electrical design	DC PNP
Operating voltage [V	1230 DC
Current consumption [mA	< 80
Protection class	III
Reverse polarity protection	yes
Outputs	
Output	2 switching outputs

2 x normally open / closed programmable

200



LK0728A-A-00KQPKG/US

Level sensors

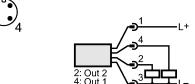
Voltage drop	[V]	< 2.5
Short-circuit protection	[-1	yes (non-latching)
Overload protection		yes
Measuring / setting range	·	
Probe length L	[mm]	728
Active range A	[mm]	585
Inactive range I1 / I2	[mm]	102 / 40
Setting range		
Set point, SP	[mm]	60610
Reset point, rP	[mm]	50600
in steps of	[mm]	10
Hysteresis	[mm]	10
Accuracy / deviations		
Deviations (% of value of m	easuring ra	ange)
Switch point accuracy		± 5
Repeatability		± 2
Reaction times		
Power-on delay time	[s]	3
Software / programming		
Adjustment of the switch po	int	Programming button
Environment		
Ambient temperature	[°C]	060
Storage temperature	[°C]	-2580
Maximum vessel pressure	[bar]	0.5 (mounted with mounting accessories E43001 - E43007)
Protection		IP 67
Tests / approvals		
EMC		EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m
		EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV
		EN 61000-4-5 Surge: 500 V / 1 kV
		EN 61000-4-6 HF conducted: 10 V
Shock resistance		DIN EN 60068-2-29: 12 g (11 ms)
Vibration resistance		DIN EN 60068-2-6 2.5 g (102000 Hz)
MTTF	[Years]	265
Mechanical data		
Materials (wetted parts)		PP (polypropylene)
Housing materials		EPDM/X (Santoprene); FPM (Viton); brass Optalloy-plated; NBR (Buna N); PA; PBT (Pocan); PC (Makrolon); PP (polypropylene)
Weight	[kg]	0.702
Displays / operating elem	ents	
Display		Switching status 2 x LED red Measured values 7-segment LED display Programming 7-segment LED display
Electrical connection		
Connection		M12 connector; gold-plated contacts
Wiring		





LK0728A-A-00KQPKG/US Level sensors

Programming of the output function: Hno = hysteresis / normally open Hnc = hysteresis / normally closed Fno = window function / normally open Fnc = window function / normally closed



Complementary outputs: output 1: = Hno, output 2: = Hnc (with the same SP / rP)

Remarks		
Remarks		**) 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 — LK7024 — 14.11.2012