



Process sensors

LK – Level measurement without float in machine tools



Level sensors



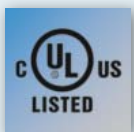
No sticking of moving parts, e.g. floats

Level measurement for water/oil-based media

Integrated overflow prevention

4 x switching outputs, 2 x switching outputs or 1 x analogue and 1 x switching output

Available in 3 lengths (264 mm, 472 mm and 728 mm)



Capacitive level sensor

The LK capacitive level sensor evaluates the capacitance of the medium. This measuring principle requires no moving parts and is therefore not affected by foam and soiling in the medium.













The ideal sensor for industrial applications

The LK is suitable for water/oil-based media and can therefore be used in hydraulic and coolant tanks. Thanks to the integrated overflow prevention the workshop remains dry and the tanks to be monitored remain filled.





Besides conventional set-up via pushbuttons and display, the LK family can also be configured quickly and easily via IO-Link (e.g. USB interface). IO-Link continuously transmits the level, independently of the output function of the sensor.



Accessories

Type	Description	Order no.
	Welding adapter, process connection \varnothing 50 mm	E43002
	Mounting adapter, G 3/4, stainless steel	E43003
	Mounting adapter, G 1, stainless steel	E43004
	Mounting adapter, 3/4" NPT, stainless steel	E43012
	Mounting adapter, 1" NPT, stainless steel	E43013
	Flange plate, 54-52 x 52 mm	E43007
	Flange plate, 73-90 mm	E43001
	Flange plate, 100-125 mm	E43005
	Flange plate, 65-80 mm	E43006
	Protective cover, PP (polypropylene)	E43910
	Climatic tube 264 mm, PPH; NBR	E43100
	Climatic tube 472 mm, PPH; NBR	E43101
	Climatic tube 728 mm, PPH; NBR	E43102

Connection technology

Type	Description	Order no.
	Socket, M12, 8-pole, 2 m black, PUR cable	E11231
	Socket, M12, 8-pole, 5 m black, PUR cable	E11232
	Socket, M12, 4-pole, 2 m black, PUR cable	EVC004
	Socket, M12, 4-pole, 5 m black, PUR cable	EVC005

Probe length L [mm]	Special feature	Active zone A [mm]	Order no.
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2 x switching outputs · IO-Link

264	–	195	LK1022
472	–	390	LK1023
728	–	585	LK1024
264	Automatic medium detection	195	LK7022*
472		390	LK7023*
728		585	LK7024*

1 x switching output, 1 x analogue output 4...20 mA or 0...10 V · IO-Link

264	–	195	LK3122
472	–	390	LK3123
728	–	585	LK3124

4 x switching outputs · IO-Link





264	–	195	LK8122
472	–	390	LK8123
728	–	585	LK8124

* in preparation

Further technical data

Operating voltage	[V DC]	18...30
Ambient temperature	[°C]	0...60
Process connection	[mm]	\varnothing 16
Protection rating, protection class		IP 67, III
Tank pressure	[bar]	0.5
Medium temperature (for medium temperatures > 35 °C the unit has to be installed in water a climatic tube)	[°C]	0...70 0...65 (depending on the installation length)

IO-Link accessories

Type	Description	Order no.
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 kBit/s)	E30390
	Memory plug, parameter memory for IO-Link sensors	E30398
	Jumper cable, M12 plug / M12 socket, 0.3 m black, PUR cable	E12432
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011