

Level Switch Ultrasonic 65124N055 – N060



Video tutorial:



https://youtu.be/3lCs95_AbYI

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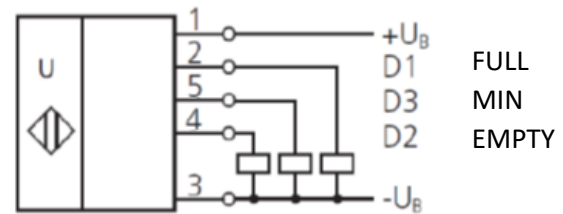
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Description

Display and Keys



Circuit diagram

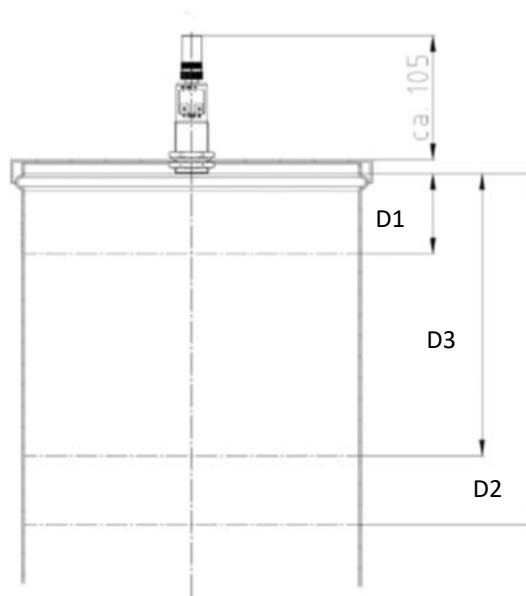


Application:

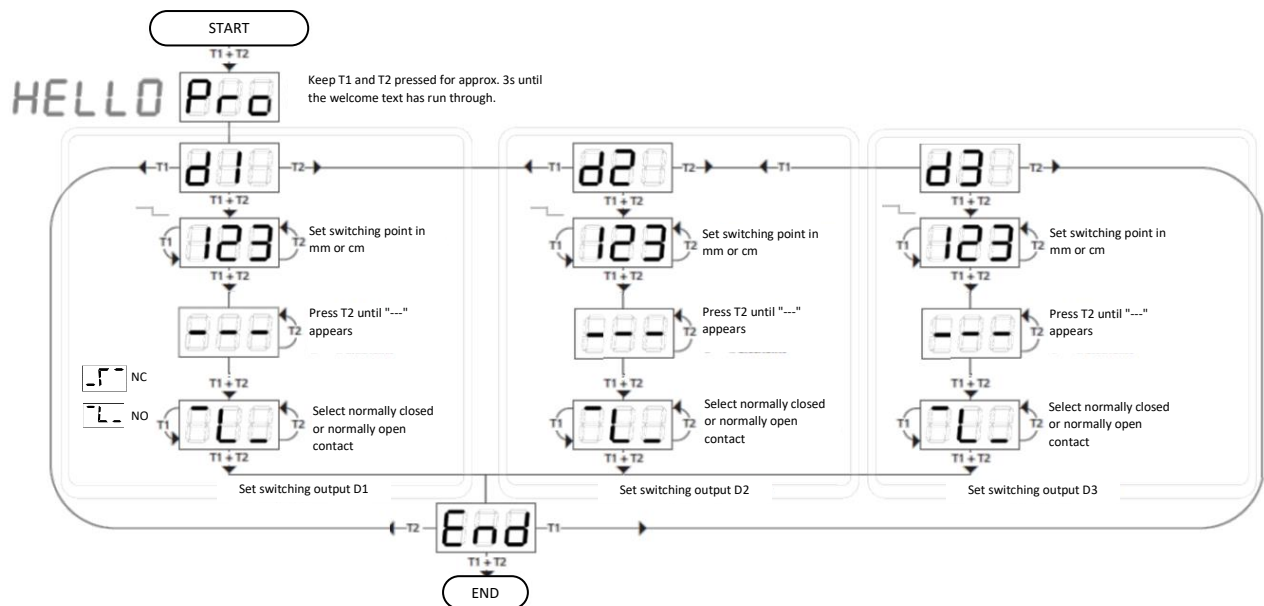
The sensor is used to monitor up to three levels in containers.
 Features: Switching distance adjustable from 65mm to 600mm.
 Operating voltage range 9V to 30V DC.
 3 x transistor outputs.
 Parameterizable via display and 2 push buttons.

Installation position:

Installation is perpendicular to the surface of the product in the lid of the container.



Entering the switching points:



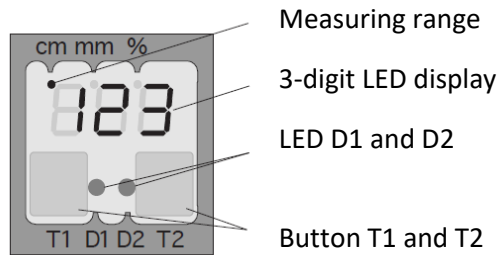
Setting values according to pump and tank size:

Part number	Pump	Tank content	D1 / mm	D3 / mm	D2 / mm	Switching delay	Hysteresis / mm
65124N055	FZ/BMB	8l	65	240	290	10s	20
65124N056	FZ/BMB	15l	65	265	315	10s	20
65124N057	FZ/BMB	30l	65	335	385	10s	20
65124N058	BS-B/ZP6	60l	65	390	440	10s	20
65124N059	BS-B/ZP6	100l	65	480	530	10s	20
65124N060	ZP4/5/6...	-	-	-	-	10s	20
Switch option for all tank sizes	-	-	NC	NC	NO	↑	-
			Switch-OFF-delay	Switch-ON-delay	Switch-OFF-delay	↓	
65124N060-PCO	PCO	76951-6011	65	265	315	10s	20
Switch option for all tank sizes	-	-	NC	NO	NO	↑	-
			Switch-OFF-delay	Switch-OFF-delay	Switch-OFF-delay	↓	

The switching points are preset according to the article number (see above).

Setting according to work instruction AAMON0016

Operation



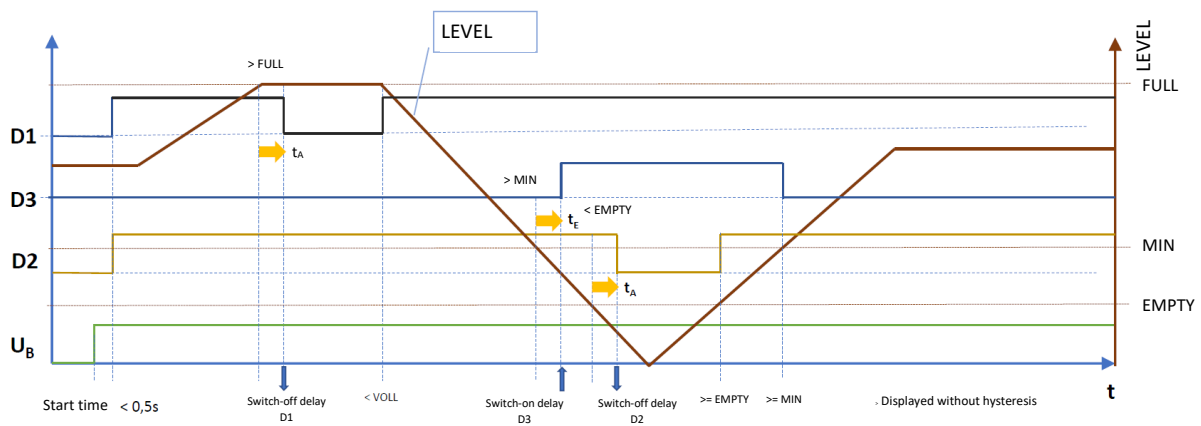
In normal operation, the LED display shows the measured distance value.

Briefly push T1 in normal operation.

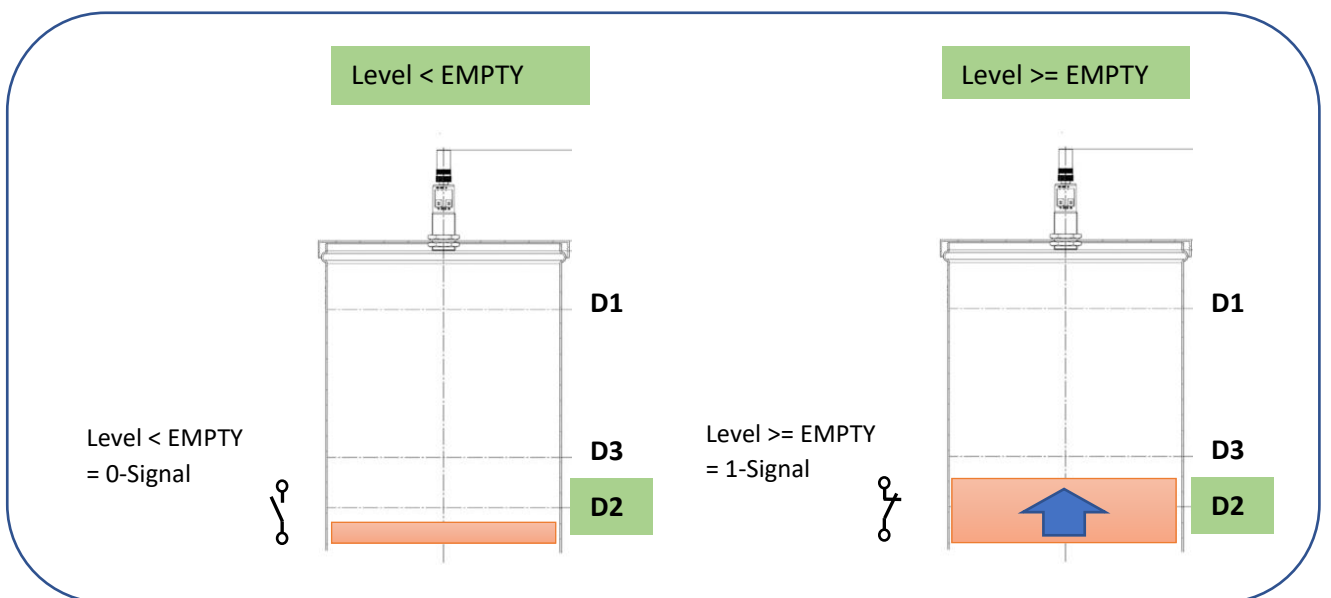
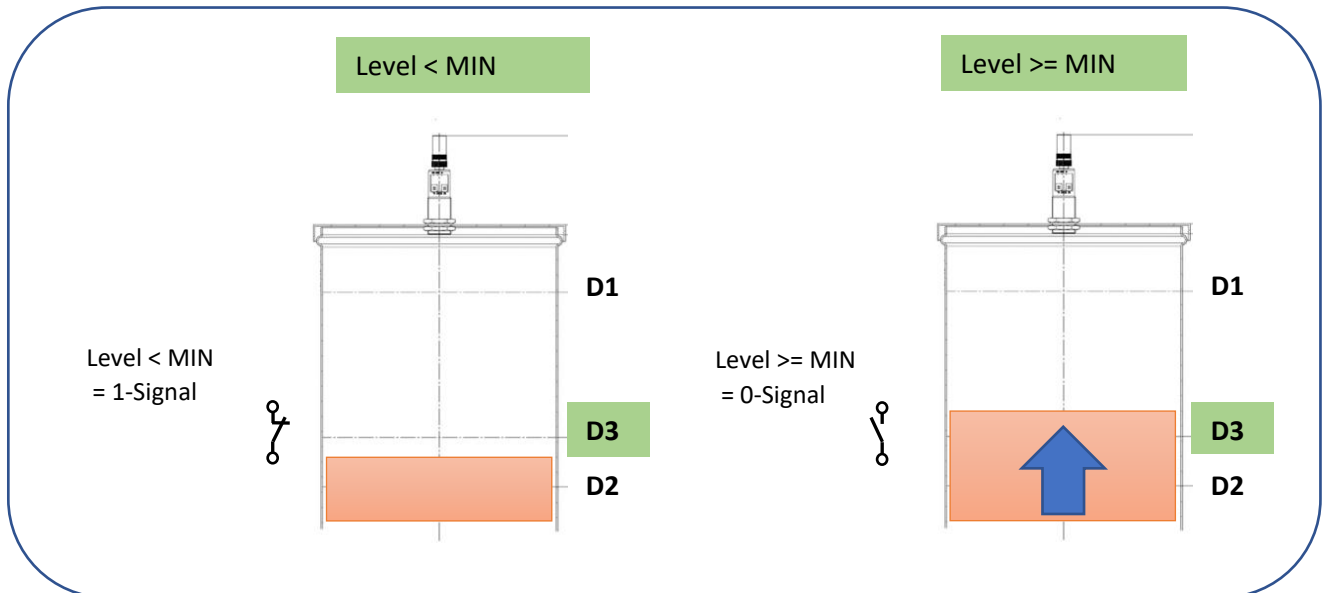
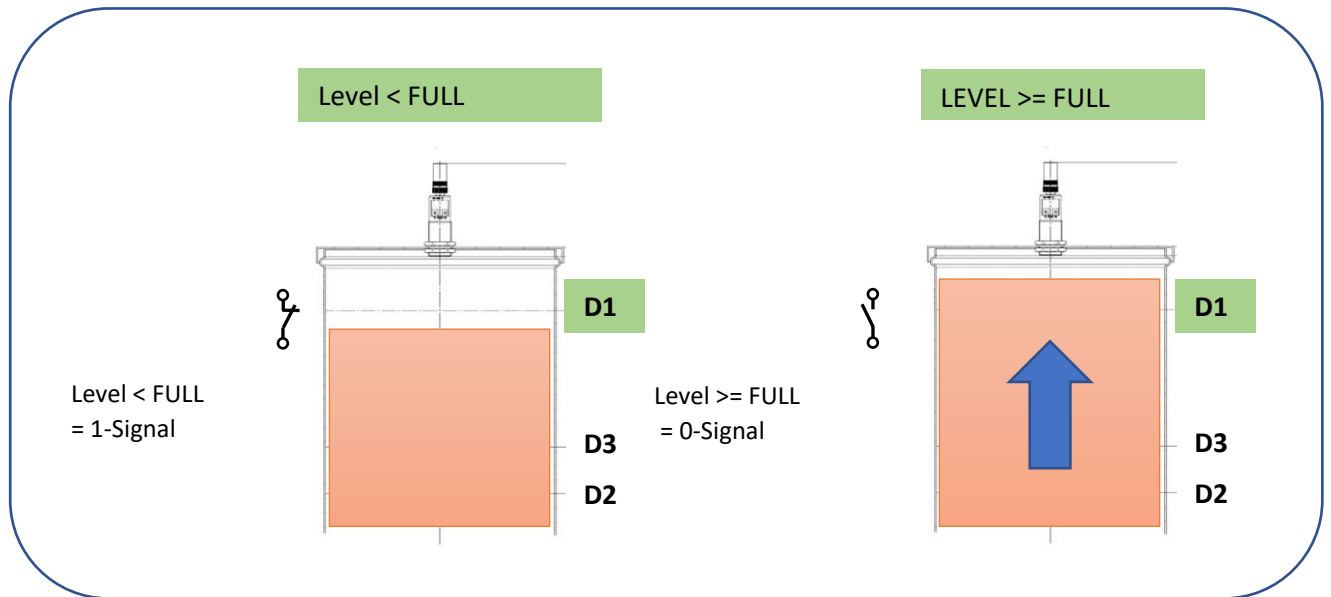
"Par" appears in the LED display.

With each further push on T1, the current settings of the switching outputs are shown.

Signal state of the outputs and LEDs



OUTPUT	LEVEL	SIGNAL	LED 1 X=ON, B=BLINK		LED 2 X=ON, B=BLINK	
			YELLOW	GREEN	YELLOW	GREEN
Output D1 (FULL)	> FULL	0-Signal	-	X	X	-
Output D1 (FULL)	< FULL	1-Signal	X	-	X	-
Output D3 (MIN)	> MIN	0-Signal	X	-	X	-
Output D3 (MIN)	< MIN	1-Signal	B	-	B	-
Output D2 (EMPTY)	> EMPTY	1-Signal	B	-	B	-
Output D2 (EMPTY)	< EMPTY	0-Signal	B	-	B	-



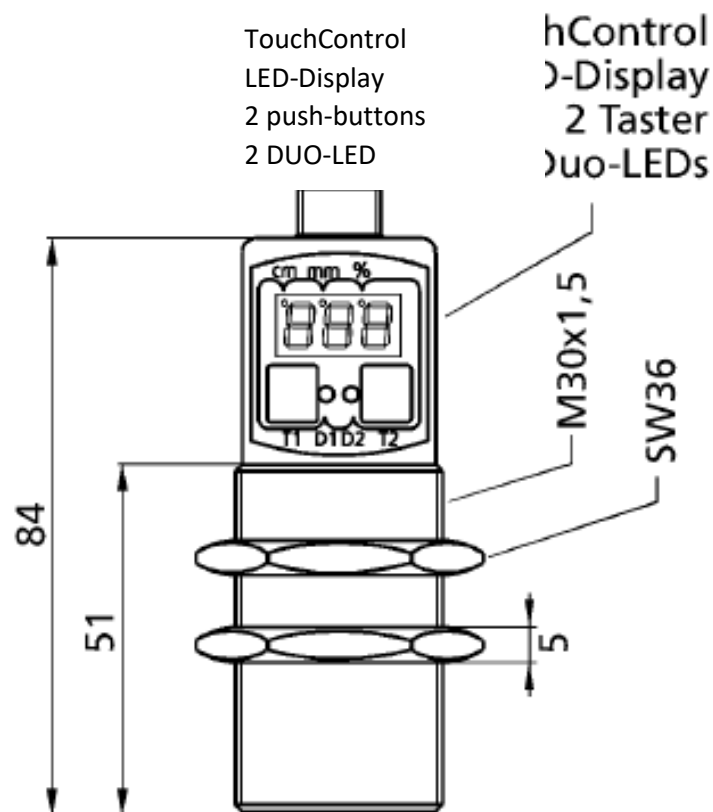
Technical data

76925N048

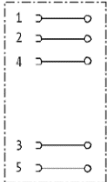
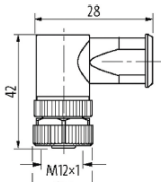
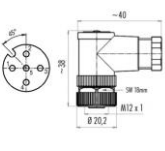
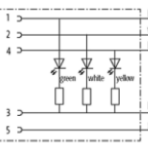
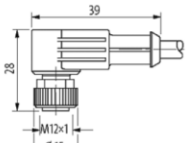
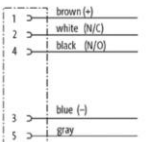
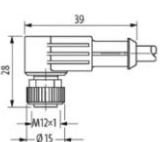
Operating voltage UB	9 V bis 30 V DC, Reverse polarity fixed
Ripple	±10 %
Idle current consumption	≤ 80 mA
Housing	Brass tube, nickel-plated; plastic parts: PBT, TPU;
Protection according to EN 60529	IP 67
Conformity to standards	EN 60947-5-2  
Type of connection	Fünfpoliger M12-Rundsteckverbinder, PBT
Adjustment elements	2 Taster (TouchControl)
Display elements	3-digit LED display, 2 tri-color LEDs
Operating temperature	-25°C bis +70°C
Storage temperature	-40°C bis +85°C
Weight	150 g
Switching hysteresis ⁽¹⁾	20 mm
Switching frequency ⁽¹⁾	12 Hz
Response delay ⁽¹⁾	64 ms
Readiness delay	< 300 ms
Switching output	3 x pnp, -U _B - 2 V, I _{max} = 3 x 200 mA
Output delay	10s

(1) Parameterizable with TouchControl and LinkControl

Dimensions



Accessories

Cable socket M12 / 5 pols Max. 5 x 1,5mm² 	Female   	76928E452	Delivery scope
Cable socket M12 / 5 pols Max. 5 x 0,75mm²  18 AWG 	 	769282867	Option
Cable socket M12 with 3 LED cable 3m / 5x0,34   	  	76928E235	Option
Cable socket M12 cable 5m / 5x0,34   	  	76928E279	Option

Label 75511S682

