CLS4

Capacitive level switch

Suitable for liquids, powders and granules
Protection IP67
ATEX certified versions
PTFE or PVC insulation

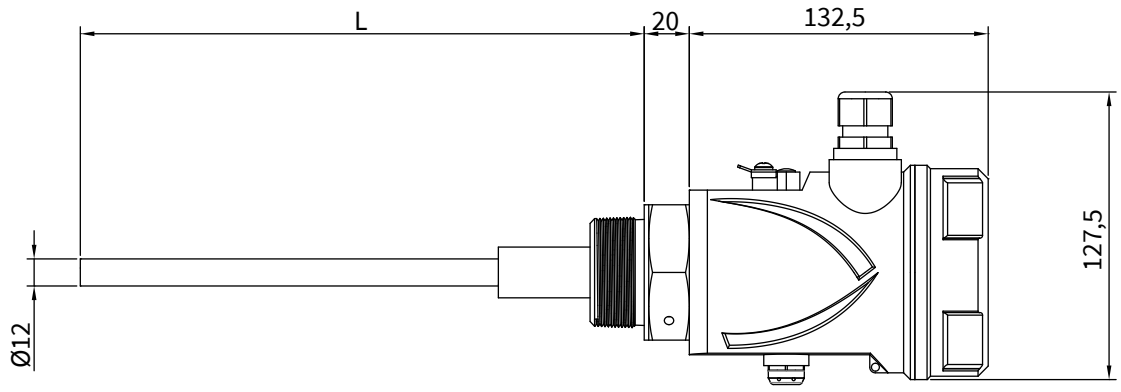
Capacitive units with rod probe for general-purpose, suitable for ON-OFF level control in conductive or non-conductive liquids, IP66 ÷ 67 protection, installation on the top or side of metallic vessels. Available with PTFE or PVC electrode protection.

Technical Feature

Version
compact; with heat sink
Process connection
threaded; sanitary
IP rating
IP66 ÷ 67

Electronics
TL41R; TL41R ATEX; TC73R
Display
Plug-in display/keyboard 4 buttons matrix LCD
Max electrode length
3 m

Electrodes
rod partially insulated in PTFE or PVC
Atex
II 1/2D Ex ia/tb IIIC T150°C Da/Db IP66 ; Tamb: -20°C ÷ 60°C



CLS4 Rod level switch

ON/OFF capacitive level control
Suitable for conductive and non-conductive liquids
Top and lateral side metallic tank-installation
Setting by VL601SGM keyboard/display removable module (TL41R) opt.
or by pushing buttons (TC7.3R)

	Version	
	A	Without preamplifier
	B	Compact
	D	Compact with carbon-steel dissipator between head and connection
	E	Compact, ATEX II 1/2D Ex ia/tb IIIC T150°C Da/Db IP66 - Tamb: -20°C ÷ 60°C (only with TL41R insert and " G" housing)
	F	Compact, with SS316 dissipator between head and connection
	H	Separate with M8 female connection + 2m coax cable with double shielding max. 120°C (cod 525A003E). Electrode with DIN B aluminum housing - IP66 - only with ½" connection and TC7.3R insert
	L	Separate with M8 female connection + , 2m coax cable with double shielding max. 120°C (cod 525A003E). Electrode with DIN A aluminum housing - IP66 - only with TC7.3R insert
	N	Compact, with carbon-steel dissipator, ATEX II 1/2D Ex ia/tb IIIC T150°C Da/Db IP66 - Tamb: -20°C ÷ 60°C (only with TL41R insert and "G" housing)
	P	Compact, with SS316 dissipator, ATEX II 1/2D Ex ia/tb IIIC T150°C Da/Db IP66 - Tamb: -20°C ÷ 60°C (only with TL41R insert and "G" housing)
	R	Separate with Al fixing base + 2m coax cable with double shielding max. 120°C (cod 525A003E). Electrode with DIN B aluminum housing - IP66 - only with ½" connection
	S	Separate with Al fixing base + 2m coax cable with double shielding max. 120°C (cod 525A003E). Electrode with DIN A aluminum housing - IP66
	Z	Special
	Electronic preamplifier	
	00	None
	43	TL41R ON-OFF, supply 85÷230Vac 50Hz, Relay output SPDT - without display
	44	TL41R ON-OFF, supply 85÷230Vac 50Hz, Relay output SPDT - with removable display
	45	TL41R ON-OFF, supply 24Vdc - 24÷36Vac 50Hz, Relay output SPDT - without display
	46	TL41R ON-OFF, supply 24Vdc - 24÷36Vac 50Hz, Relay output SPDT - with removable display
	73	TC7.3R local calibration, 24Vdc, 3 relays out for 3 adjustable set-points
	99	Special
	Housing for electronic preamplifier	
	B	IP66 loaded PC , white polycarbonate cap - only with TC7.3R insert
	F	PC with transparent cap and osmotic filter, IP67 - only with TL41R insert
	G	IP67 aluminum varnished with osmotic filter (necessary for ATEX version) - only with TL41R insert
	L	PC with blind cap and osmotic filter, IP67 - only with TL41R insert
	Z	Special
	Process connection	
	01	G1" / Carbon-steel - not for DIN B housing
	02	G1" / SS316 - not for DIN B housing
	03	1" NPT-M / Carbon-steel - not for DIN B housing
	04	1" NPT-M / SS316 - not for DIN B housing
	11	G1"½ / Carbon-steel - not for DIN B housing
	12	G1"½ /SS316 - not for DIN B housing
	18	G1"½ / PVC - only for compact versions, B housing and TC73R insert
	19	G1"½ / PTFE - not for DIN B housing
	20	Sanitary DN25 DIN 11851 / SS304L - not for DIN B housing
	21	Sanitary DN40 DIN 11851 / SS304L - not for DIN B housing
	22	Sanitary DN50 DIN 11851 / SS304L - not for DIN B housing
	71	CLAMP 1" / SS316
	73	CLAMP 1" ½ / SS316
	75	CLAMP 2" / SS316
	83	G½" / Carbon-steel - not for electrodes type Q/R/S
	84	G½" / Stainless-steel SS316 - not for electrodes type Q/R/S
	92	G ¾" / SS316 - not for DIN B housing
	99	Special
	Electrode type and insulation	
	B	PTFE partially insulated SS316 rod
	C	SSI316 rod with extended PVC insulation
	D	PVC totally insulated SS316 rod
	G	SS316 rod with extended PTFE insulation
	H	PTFE totally insulated SS316 rod
	L	PTFE 8/12 totally insulated SS316 rod (for liquids max 2000mm)
	Q	PTFE partially insulated SS316 rod + SS316 concentric reference electrode (for liquids)
	S	PTFE 8/12 insulated rod + SS316 grounding reference (for liquids - max length 2000mm) just with non sensitive part cod A
	Z	Special
	L= Electrode length, price each 100mm	
	40	PTFE partially insulated SS316 rod
	41	SS316 rod with extended PVC insulation
	42	PVC totally insulated SS316 rod
	45	SS316 rod with extended PTFE insulation
	46	PTFE totally insulated SS316 rod
	48	PTFE 8/12 totally insulated SS316 rod (for liquids max 2000mm)
	53	PTFE partially insulated SS316 rod + SS316 concentric reference electrode (for liquids)
	55	PTFE 8/12 insulated rod + SS316 grounding reference (for liquids - max length 2000mm)
	99	Special
	L1 = non sensitive part (rod), material and price each 10cm	
	A	None
	B	Carbon-steel
	C	SS316
	Z	Special