

Datasheet for

POINTEK ULS 200 Ultrasonic non-contacting switch with two switch points for level detection of bulk solids, liquids and slurries in a wide variety of industries; ideal for sticky materials

Ordering data: **7ML15103KE02**

General

Manufacturer	Siemens
Supplier	Siemens
Product designation	Point level measurement - Ultrasonic switch
Brand name	Pointek ULS200
Type designation	POINTEK ULS 200 Ultrasonic non-contacting switch with two switch points for level detection of bulk solids, liquids and slurries in a wide variety of industries; ideal for sticky materials
Net weight	1,6 kg Non-contacting level switch, ideal for sticky or abrasive materials

Mode of operation and application

Measuring principle	ultrasonic
Beam angle	12 Degree

Input

Measurand	point level
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Measuring range

Measuring range	0,25 m...5 m
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Output

Digital output

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Relay output

Number of outputs	2
Type	Single Pole Double Throw (SPDT)
Switching capacity voltage, AC (maximum)	250 V
Switching capacity current, AC (maximum)	5 A
Switching capacity current, DC (maximum)	5 A
	2

Accuracy

	3 mm
Precision accuracy	0,25 %

Rated conditions

Degree of pollution	Pollution degree 4
Overvoltage class	Installation category II

Pressure

Operating pressure, relative (maximum)	0,5 bar
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Environmental conditions

Ambient temperature during operation	-40 °C...+60 °C
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Degree of protection

IP rating	IP67
NEMA rating	NEMA 6

Design

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Mechanical design

Process connection

Design	male thread
Standard	ANSI B1.20.1
Nominal size	2"-11½ NPT

Material

Process connection

Material	polyvinylidene-fluoride (PVDF)
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Housing

Material	Polycarbonate (PC)
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Sensor

Material of the sensor jacket	polyvinylidenfluoride (PVDF)
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Cable entry & cable gland

Material of the cable entry	Polycarbonate (PC)
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Mounting

Mounting position	vertical
Location	Outdoor area

Electrical connections

Connection technology	4-wire technology
Number of cable entries	2
Design of the cable entry	1/2"-14 NPT
Cross-sectional area of the signal cable (maximum)	2,5 mm ²
AWG wire size (maximum)	16

Display and controls

Display	with display
Design of the display	LCD
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Controls	Pushbutton
Number of controls	2

Power supply

Electrical

Type of voltage supply	power supply unit
Voltage type	AC, DC
Nominal voltage, AC	115 V, 230 V
Supply voltage, AC	85 V...264,5 V
Nominal frequency	50 Hz, 60 Hz
Power consumption effective power	5 W
Power consumption apparent power	12 VA

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Certificates and approvals	
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Verification of suitability	C-Tick (RCM), CE, CSA
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Fluid group according to PED 97/23/EG	gas group 2
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	24,7 a
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	SN 29500
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	calculation with component load
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	40 °C
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	Measuring device
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The information provided in this data sheet contains descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.