

Technical information for force sensor for toggle clamps

Technical data:

Physical connection	
Type of connector	USB - Type C
Transfer protocol	Proprietary protocol
Displays / control elements in combination with Bluetooth module	
Button	<p>Short tap: Activates or deactivates the LED display for visual control of the sensor.</p> <p>Long press > 2 seconds: Establish the configuration status</p> <p>Longer pressure > 5 seconds: Restores the operating status.</p>
LED indicator	<p>Visual control status of the sensor</p> <p>2 red LED's illuminated: The applied force is less than 10% of the set value.</p> <p>1 green LED illuminated: The applied force is between 10% and 45% of the set value.</p> <p>2 green LED's illuminated: The applied force is between 45% and 80% of the set value.</p> <p>3 green LED's illuminated: The applied force is between 80% and 120% of the set value.</p> <p>3 green and 1 red LED's illuminated: The applied force is between 120% and 175% of the set value.</p> <p>3 green and 2 red LED's illuminated: The applied force is greater than 175% of the set value.</p> <p>2 red LEDs blinking slowly (1x per second): battery level under 20%.</p> <p>Configuration status</p> <p>LEDs illuminate sequentially from red to green: Zero demanded, short press to confirm.</p> <p>LEDs illuminate sequentially from green to red: Setpoint demanded; short press to confirm.</p> <p>All LED's flash 3 times: Configuration has been acquired.</p> <p>Operating status</p> <p>All LEDs blinking (1x per second): Operating status established, link must be confirmed at the receiver.</p> <p>3 green LEDs blinking 3 times: pairing successful.</p> <p>2 red LEDs blinking 3 times: pairing failed.</p>

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Environmental conditions		
Application location		For use indoors
Altitude		Up to 2000 m
Operating temperature	[°C]	0 to 65
Storage temperature	[°C]	-10 to 65
Maximum relative humidity	[%]	80 (without condensation)
Safety rating		IP64 as defined in DIN EN 60529
Approval / inspections		
EMC		EN 301 489-1 / EN 301 489-3 / EN 301 489-17
Vibration resistance		EN 60068-2-6
Shock resistance		EN 60068-2-27