

Type 3 Safety area scanner FLSC



Safety area scanner with 180° scanning angle

Multi-purpose mounting kit enables easy installation

Protection field up to 4 m range

Pre-warning field up to 15 m range

Measuring field up to 50 m range

Enclosure rating IP 65

Option: external switching units with relay outputs available

Protective fields programmable via PC (notebook)



Typ 4
EN 61496


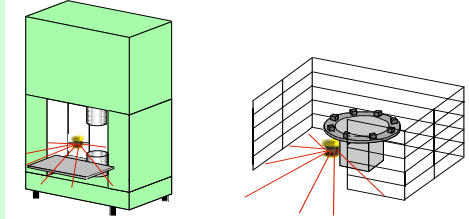
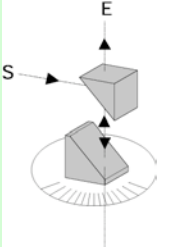



DIN EN ISO 9001
Reg.Nr. 96007



optional



<h4>Application</h4>	 <p>The Proximity Laser Scanner FLSC is an electrosensitive protective device (ESPE). An ESPE provides protection of persons and vehicles from accidents and/or collisions.</p> <p>This is achieved by guarding the machine or the vehicle in a way that any access to this machine is possible only by entering the protective field generated by the scanner. Various shapes or sectors of protective fields can be taught in, the respective sectors or shapes can be programmed and evaluated by computer (notebook). If the parameters of an obstacle that is permanently located within the protective field are programmed, this obstacle will not be detected as a dangerous object, and the scanner will not shut down the machine. However, if the scanner detects an obstacle that has not been previously programmed, it will stop the machine at once.</p> <p>The Proximity Laser Scanner FLSC can also be used as a protective device in mobile applications (collision avoidance in vehicles). The protective field will self-adjust according to the contours of its surroundings. Therefore, persons and other vehicles will be detected and protected, and cost-intensive damages resulting from collisions will be avoided.</p> <p>For instance, the FLCS is able to reduce the speed of the vehicle and to issue a warning signal if any person or any obstacle is detected within the warning field. As soon as the FLSC detects an obstacle within the protective field, the hazardous movement of the vehicle will be stopped at once. The vehicle is on hold until the obstacle/the person has left the protective field. If the protective field is cleared again, the FLSC will make the vehicle resume moving.</p> <p>The FLSC provides several field types:</p> <ul style="list-style-type: none"> - protective field: -->range (radius): 4 m, 2 safety circuit outputs (redundant), e.g. for stopping the machine - warning field: --> range (radius): 15 m, 1 additional output, e.g. for releasing of an alarm signal. - measuring field --> range (radius): 50 m, for contour mensuration
<h4>Areas of application</h4>	 <ul style="list-style-type: none"> - accessible hazardous machine areas - accessible areas inside of machines - moveable ground transportation vehicles - barring from walking behind the hazardous site
<h4>Description of function</h4>	  <p>The FLSC emits a laser beam of laser protection class 1, which is deflected by the built-in deflection mirror.</p> <p>The rotation of this mirror covers an angle of 180°. The FLSC detects the reflected beam and evaluates its data in the receiver unit.</p> <p>For the electrical connection of the FLSC, two 9-pin sub-D-plugs are provided on the top side of the housing.</p>
<h4>Technical data</h4>	<p>-Outputs: 2 safety PNP - outputs (Optional safety switching unit ULSG available. ULSG - connection voltage: 230V/115V/24V and relay outputs.)</p> <p>-On demand, additional special switching units providing terminals for up to 4 scanners can be provided.</p> <p>Built-in dirt warning in the FLSC unit display</p> <p>Response time: 80 ms Dimensions: 155x185x156 (WxHxD) Laser protection class: 1 Enclosure rating: IP 65 Weight: 4200 g</p> 