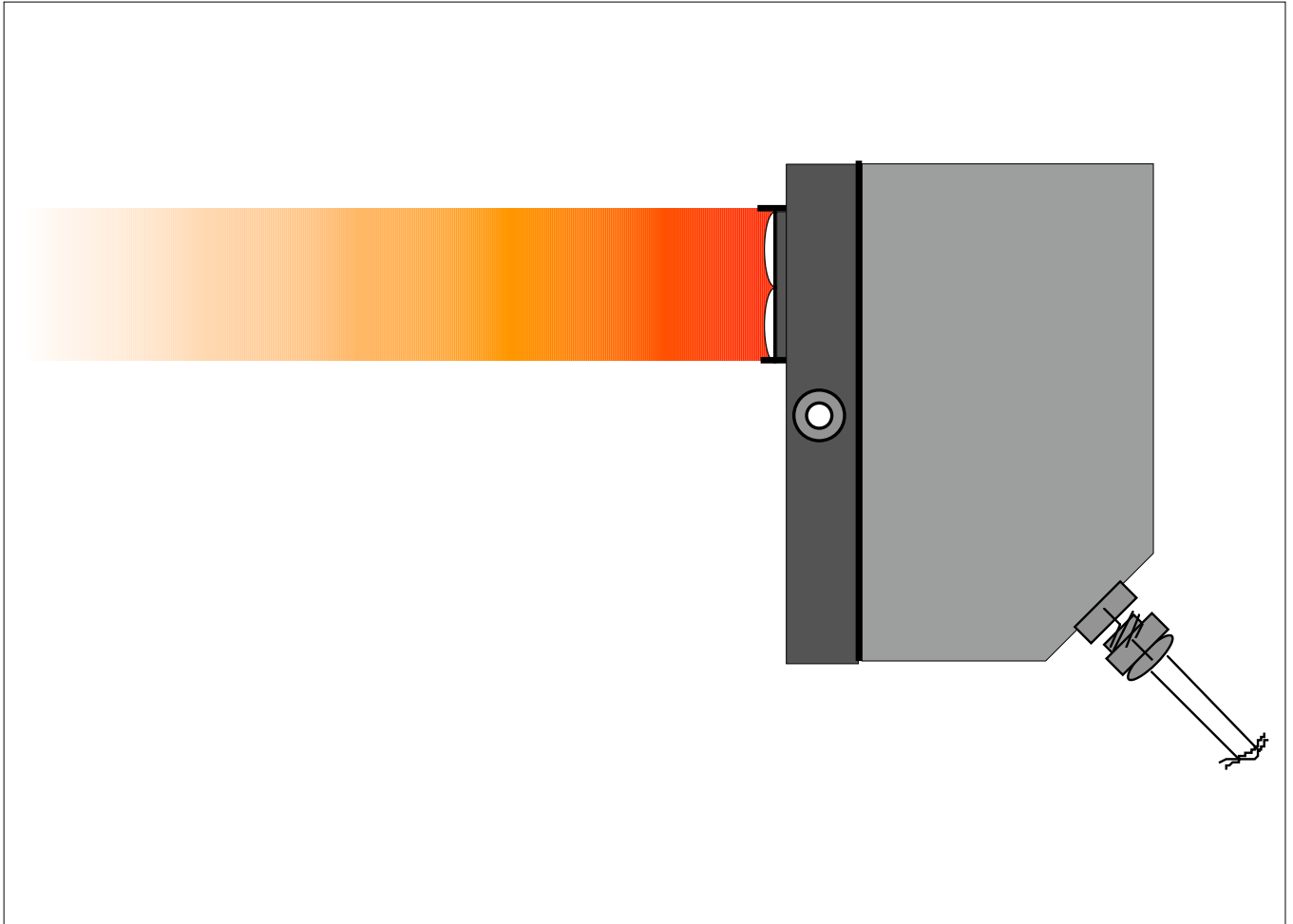


### Multi-features light barrier

### MFL



**Operation with reflecting and non-reflecting (diffuse) objects**

**0m - 15m range**

**Digitally adjustable releasing / closing dilatation of relay**

**Automatic adjustment**

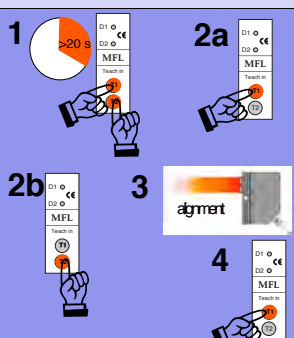
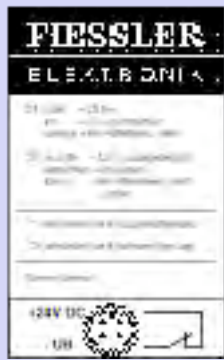
**Immune to interferences**

**IP 65**



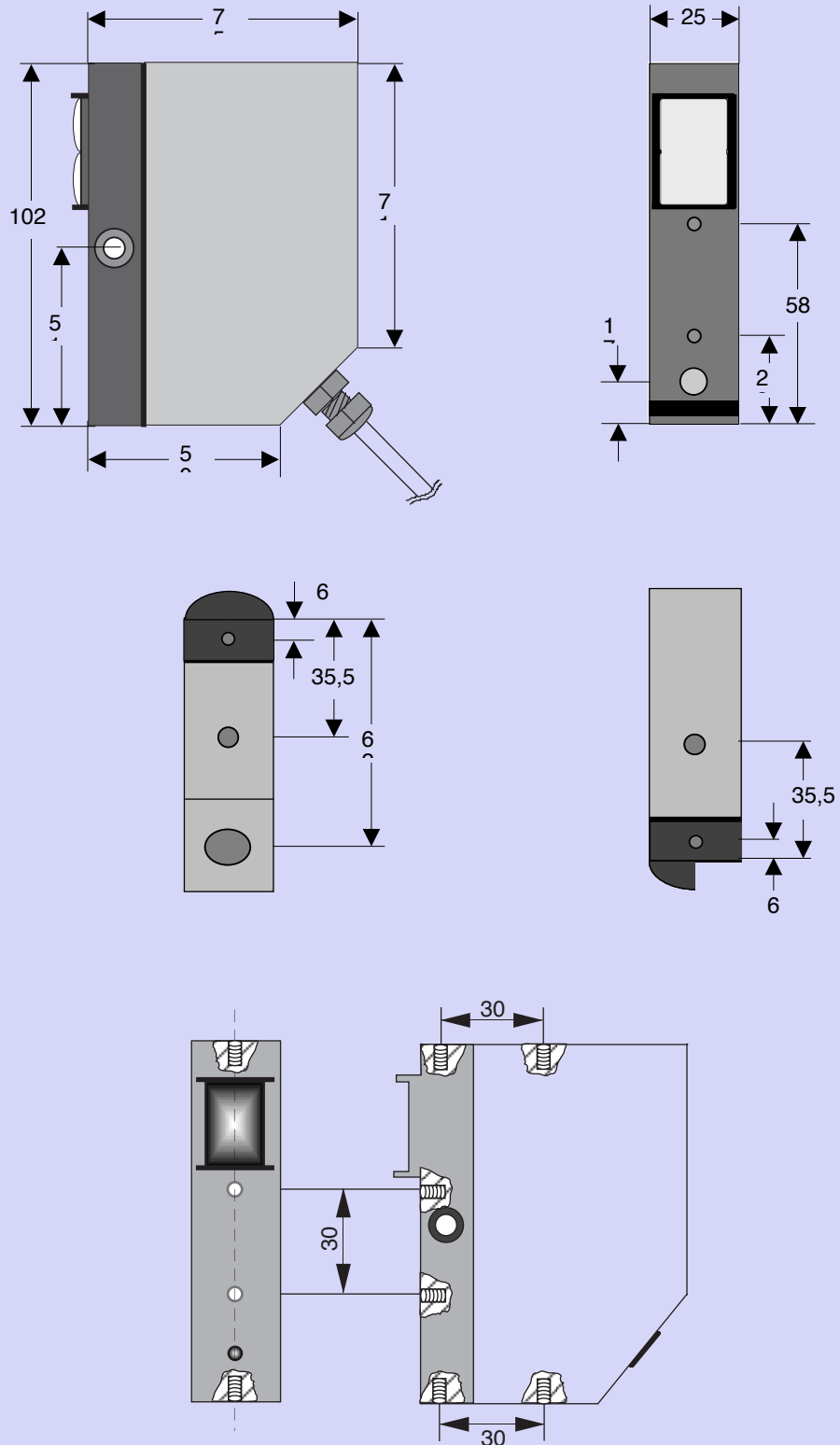
DIN EN ISO 9001  
Rec.Nr. 96007



<b>Application</b>	<b>MFL</b>																				
	General purpose-reflex light barrier with extended detection range. For general applications like detecting, counting etc.																				
<b>Description of function</b>																					
	The function of the reflex light barrier MFL is controlled by micro controller. This micro controller regulates all tasks like controlling of the infrared diode, evaluation of the receiver signal, interference blanking in case of faulty signals, and automatic adjustment to various detection ranges as well as the controlling of digitally adjustable releasing / closing dilatation of relay.																				
<b>Adjustment</b>																					
	<p>The MFL features automatical adjustment to the desired detection range. For entering the adjustment mode, both buttons T1 and T2 must be pressed down for more than 20 sec <b>(1)</b>. After 20 sec., all LEDs will darken. Now the button T1 for operation with reflecting objects <b>(2a)</b> or the button T2 for operation with non-reflecting (diffuse) objects has to be pressed <b>(2b)</b>. Consequently, the yellow LED D2 lights up and the status LED D1 lights up red. Now the light barrier may be adjusted until the respective object (e.g., the reflector) makes the LED turn green. <b>(3)</b> If the button T1 is pressed once more, the MFL will calculate an average value out of 10 measurements <b>(4)</b>. This value will be the reference value for all following measurements. Now the MFL is adjusted. This procedure may be repeated at random.</p> <p>The MFL features an adjustable releasing / closing dilatation of relay. Deceleration range is 1 - 255 sec. in gradation steps of 1 sec or more. Each feature may be defined separately.</p> <p>In order to program the closing dilatation of the relay, it is necessary to keep the button T1 pushed during operation. LED D2 lights up once per second. With every flashing, the time dilatation will increase by 1 second. After releasing of the button the respective value is registered. Diverse registered values may be added by another push of this button. For programming the releasing dilatation of relay, it is necessary to execute the same procedure with the T2-button.</p> <p>Reset of both dilatation periods will be executed when both buttons T1 and T2 are pushed simultaneously. When doing so, the LED D2 will flash once.</p>																				
<b>Technical data</b>																					
	<table border="0"> <tr> <td>operation voltage:</td> <td>24 V / 110mA</td> <td>ambient operation temperature:</td> <td>-10°C up to +55°C</td> </tr> <tr> <td>detection range:</td> <td>15 m (reflector 100 x 100 mm)</td> <td>weight:</td> <td>250g</td> </tr> <tr> <td></td> <td>2 m (white paper)</td> <td>protection class:</td> <td>IP 65</td> </tr> <tr> <td>output:</td> <td colspan="3">1 potential free output (1x UM)</td> </tr> <tr> <td>connection type:</td> <td colspan="3">2m fixed cable</td> </tr> </table>	operation voltage:	24 V / 110mA	ambient operation temperature:	-10°C up to +55°C	detection range:	15 m (reflector 100 x 100 mm)	weight:	250g		2 m (white paper)	protection class:	IP 65	output:	1 potential free output (1x UM)			connection type:	2m fixed cable		
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output:	1 potential free output (1x UM)																				
connection type:	2m fixed cable																				
<b>Type plates</b>																					
	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">                 D1 ○                  D2 ○                  CE             </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <b>MFL</b> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;">                 Teach in                  T1                  T2             </div> <div style="border: 1px solid black; padding: 5px;">  </div> </div>																				

#### Dimensions

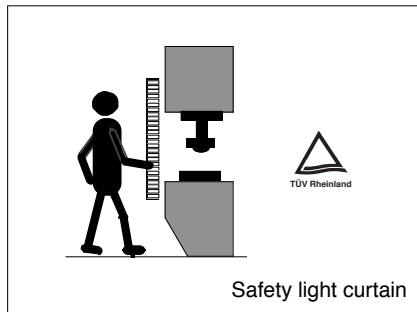
#### MFL



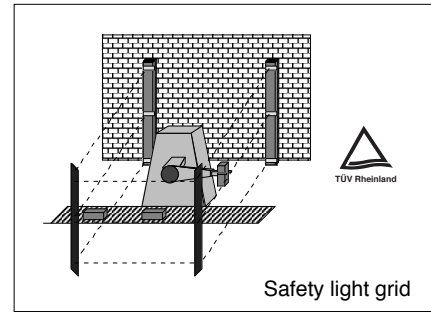
mounting: M4 straddling dowel on three housing walls, one through-bore for screws M6

# Delivery program

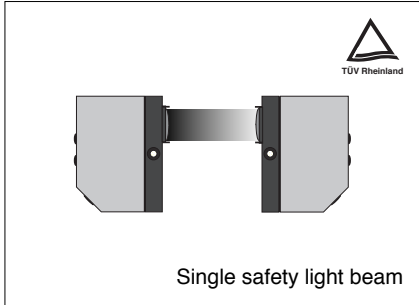
Fiessler Elektronik  
 Kastellstr. 9 D-73734 Esslingen  
 Telefon: 0711 / 91 96 97-0  
 Telefax: 0711 / 91 96 97-50  
 WWW.fiessler.de  
 E-Mail: info@fiessler.de



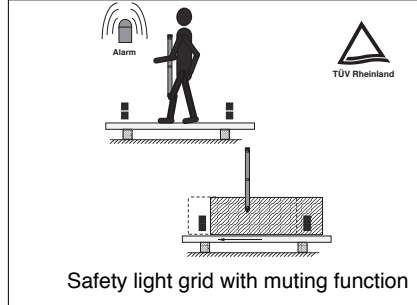
Safety light curtain



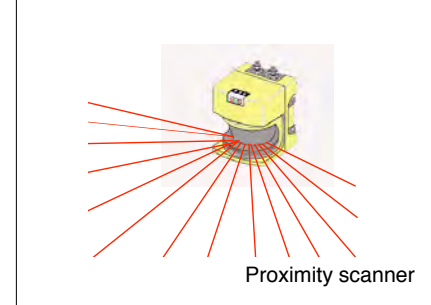
Safety light grid



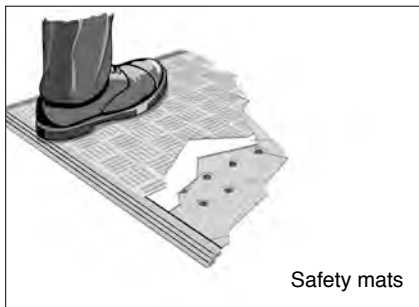
Single safety light beam



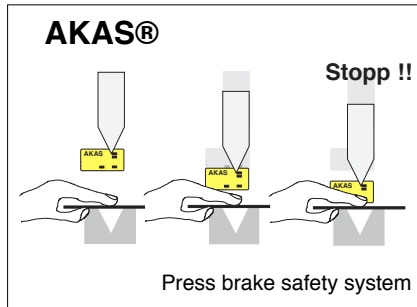
Safety light grid with muting function



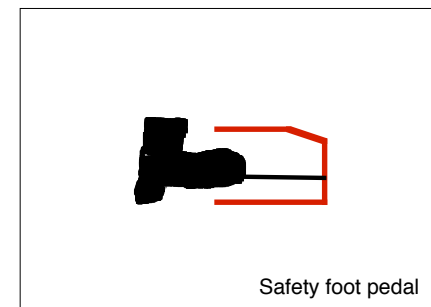
Proximity scanner



Safety mats



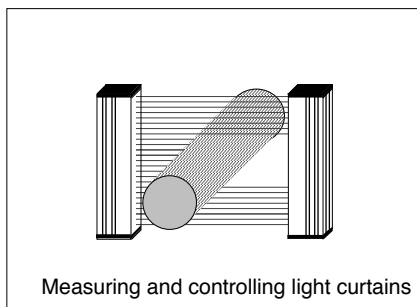
Press brake safety system



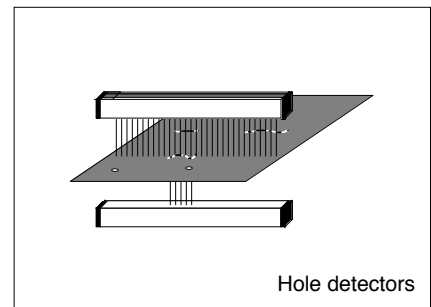
Safety foot pedal



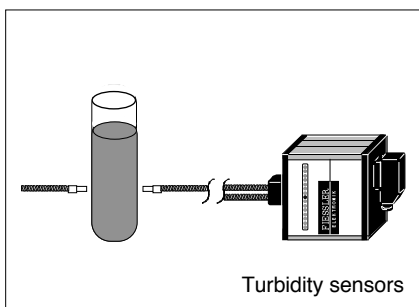
Safety PLC  
 Safety controllers



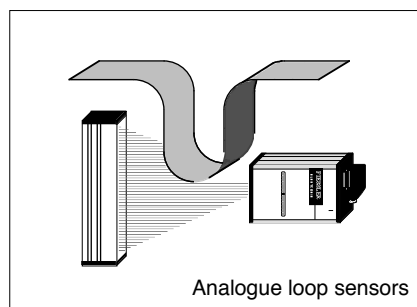
Measuring and controlling light curtains



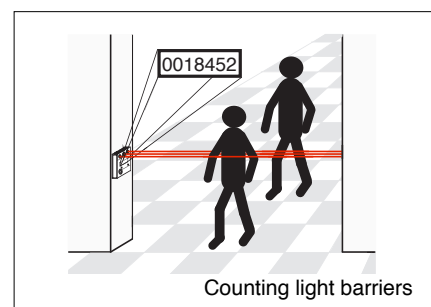
Hole detectors



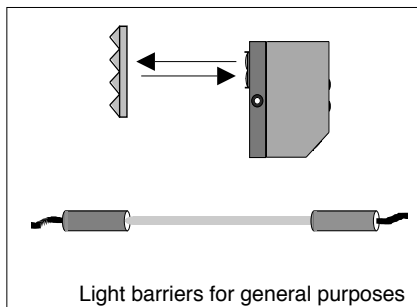
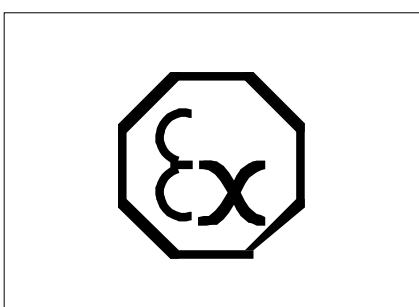
Turbidity sensors



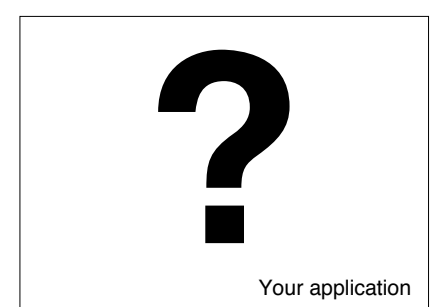
Analogue loop sensors



Counting light barriers



Light barriers for general purposes



Your application