



**WTHF**

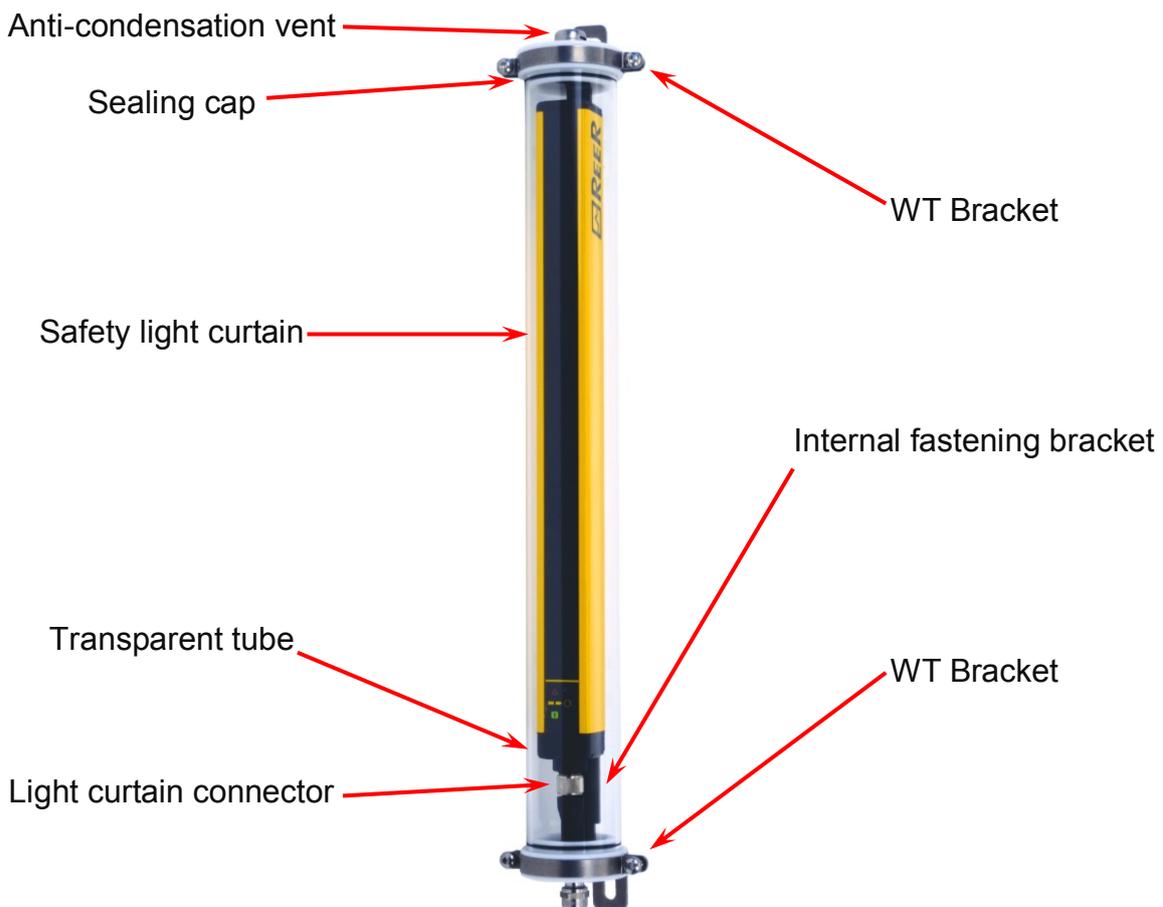
**CYLINDRICAL PROTECTIVE HEATED HOUSING FOR USE IN SEVERE ENVIRONMENTAL CONDITIONS**

- *Ideal for external use*
- *Resistant to pressurised water jets*
- *Resistant to highly humid environments*
- *Resistant to cold temperatures*
- *Resistant to saline environments / food industry*

**INTRODUCTION**

- WTHF is a **cylindrical protective housing for safety light curtain** designed to secure operators working on dangerous machines in an industrial environment including the protection of access to the stations in severe environmental conditions.
- WTHF is particularly suitable for applications in the food industry using inert materials.
- Thanks to its features, WTHF is also the ideal solution for all uses in external environments (rain, sun, environments that generate condensation or cold temperatures).
- The cylindrical housing WTHF can fit the following safety light curtain REER families: EOS2/EOS4.

**PRODUCT STRUCTURE**



**Figure 1**

**GENERAL CHARACTERISTICS**

- Resistant to pressurised water streams of up to 100 bar.
- Integrated anti-condensation system through the GORE™ vent.
- Thermostatic heating control system (power supplied with 24V AC/DC).  
(Heating system power consumption = 2 ÷ 10W; see technical characteristics table).
- Operating temperature from -25° to +55°C.
- Degree of protection IP69K.
- CE certified.

**PROTECTIVE HOUSING TECHNICAL CHARACTERISTICS**

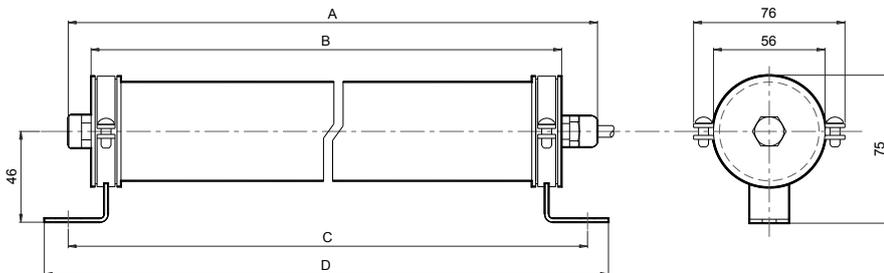
<b>Fastenings</b>	Via 2 WT circular brackets												
<b>Operating temperature</b> °C	-25 ÷ +55												
<b>Operating temperature with pressurised water</b> °C	10 ÷ 55 (max. water pressure = 100 bar)												
<b>Material</b>	<b>Transparent tube</b>	PMMA (Polymethylmethacrylate) Ø 50mm											
	<b>Sealing caps</b>	POM C Ø 56mm / Silicone O-RING											
	<b>WT brackets</b>	Stainless steel (AISI 316L)											
<b>Degree of protection</b>	IP 69K												
<b>MODEL</b>	150	300	450	600	750	900	1050	1200	1350	1500	2B	3B	4B
<b>Heating system power consumption</b> W	2	4	6	8	9	10	10	10	10	10	8	10	10

**LIGHT CURTAIN ELECTRICAL CONNECTIONS**

EMITTER			
PIN	COLOR	NAME	DESCRIPTION
1	Brown	24VDC	+24VDC power supply
3	Blue	0VDC	0VDC power supply
5	Grey	PE	Ground connection
2	White	RANGE0 *	Barrier configuration
4	Green	RANGE1 *	
-	Yellow	0VDC	
-	Red	24V AC/DC	<b>HEATING SYSTEM</b>
-	Pink	n.c.	-

RECEIVER			
PIN	COLOR	NAME	DESCRIPTION
2	Brown	24VDC	+24VDC power supply
7	Blue	0VDC	0VDC power supply
8	Red	PE	Ground connection
1	White	OSSD1	Safety static outputs
3	Green	OSSD2	
5	Grey	SEL_A	Barrier configuration
6	Pink	SEL_B	
4	Yellow	K1_K2	External contactors Feedback
-	Black	0VDC	<b>HEATING SYSTEM</b>
-	Violet	24V AC/DC	

**DIMENSIONS (mm)**



**Cable length:** 10m  
Cables of different lengths available on request.  
**Ø max (mm) = 5,8**

Figure 2

MODEL	150	300	450	600	750	900	1050	1200	1350	1500	1650	1800	2B	3B	4B
<b>Dimension "A"</b>	320	470	620	770	920	1070	1220	1370	1520	1670	1820	1970	760	1060	1160
<b>Dimension "B"</b>	290	440	590	740	890	1040	1190	1340	1490	1640	1790	1940	730	1030	1130
<b>Dimension "C" (± 3mm)</b>	315	465	615	765	915	1065	1215	1365	1515	1665	1815	1965	755	1055	1155
<b>Dimension "D"</b>	337	487	637	787	937	1087	1237	1387	1537	1687	1837	1987	777	1077	1177

**WT EOS FASTENING BRACKET**

➔ The figure illustrates the assembly of the brackets for the top and bottom caps of the housing.

➔ During the alignment of the barrier models 1350 and up, take care not to over-tighten the upper and lower brackets to avoid abnormal rotations of the barrier inside the container WT.

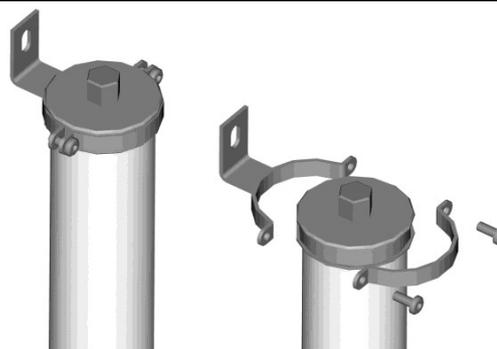


Figure 3