



Press Release, 10.04.2002

## OSMOS is entering the preventive market!

After 3 years of development OSMOS is entering the preventive market by the middle of this year offering a new revolutionary concept.

The new Sensor “X-Trigger” ® works as a threshold level detector in different kinds of situations in civil engineering. The “X-Trigger” can operate in three different modes: permanent-, sleeping- and prepared mode.

As all the other components which have given OSMOS a dominating position in the market, OSMOS has paid special attention during development on:

- accuracy +/- 0,01 mm from the adjusted threshold level
- robustness
- long lifetime, more than 20 years
- flexible use
- easy handling
- cost effective

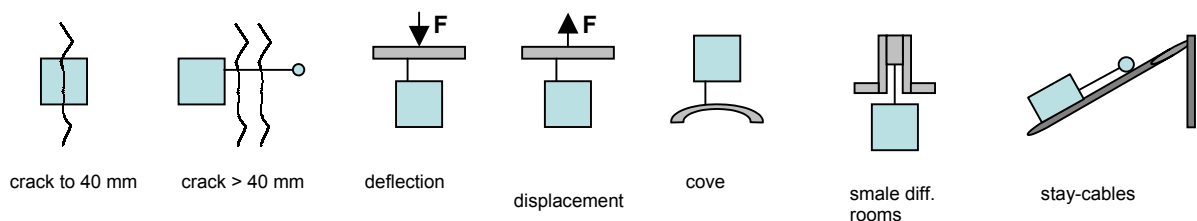
Within „Permanent-Mode“, the “X-Trigger” effectuated binary decision will be given in real-time and transmitted accordingly. . The positioning of local trigger point will take place by LWL-technology up to a length of 8 km. After release of trigger a new threshold value can be adjusted. The threshold values can be calibrated either for tensile – or pressure displacement and immobility, in each 6 different grades between 0, 25 and 4 mm.

Within „Sleeping-Mode“, “X-Trigger” is able to operate periodically within the above mentioned characteristics. If the sensor is visible after installation, personal are able to realize that the trigger is activated (visual check).

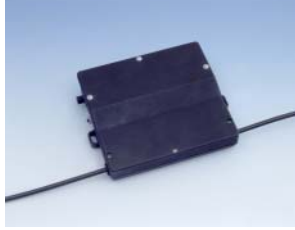
„Prepared-Mode“ is offering the most cost effective control. Here a visual check is in place.

OSMOS supplies the sensor completely preset ex works. For installation no special staffs are required.

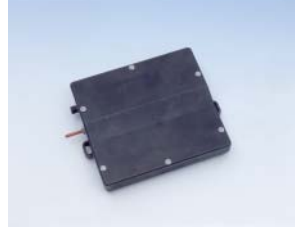
### Applications:



## X-Trigger Pictures:



**Click picture to zoom**  
X-Trigger as crack-watchdog  
(FO-cable connected)



**Click picture to zoom**  
X-Trigger as sleeping safeguard  
(indicating alarm, cable free)



**Click picture to zoom**  
X-Trigger as push-bottom  
(FO-cable connected)

## **Technical specification:** X-Trigger ®

### Measurement basis:

measurement basis: <i>(54 different settings applicable, using "permanent-, sleeping- and prepared-mode".)</i>	adjustable threshold value: 0,25 / 0,5 / 1,0 / 1,5 / 3,0 / 4,0 (mm)  release of Trigger: <u>tension</u> <u>pressure</u> X - - X X X (immobility)
resolution	0,00 1 mm
absolute accuracy	+/- 0,01 mm from adjusted threshold value
time-reactivity of sensor	dead time = 1 ms
temperature range	-30°C to + 70°C, operation temperature -30°C to + 85°C, storage temperature
temperature dependence	15 x 10 <sup>-6</sup> m/K
repeated use	> 100 „Trigger“ no drift
EMI	insensitive, neutral (radiation- and exposition environmental applications approved)
environmental resistance	UV-light, oil-resistant including gasket
lifetime	> 20 years
connection	fiberoptic connector up to 4 km length to the OSMOS-Box, <i>protected, coated special OSMOS FO-cable with connector.</i>

### Casing:

site [LxWxH]	[145 x 160 x 40] mm
weight:	400 g
touch-finger	50 mm, steel
material	PC 30 GF (Makrolon®, Bayer)
protection, water proof	IP65
type of signal:	signal (red) for visual check with FO-cable, voice, SMS, fax, modem without FO-cable

***Test:***

mechanical impact test	3m free fall
resilience	7,5 kJ/m <sup>2</sup>
vibration	guarantee against false alarm

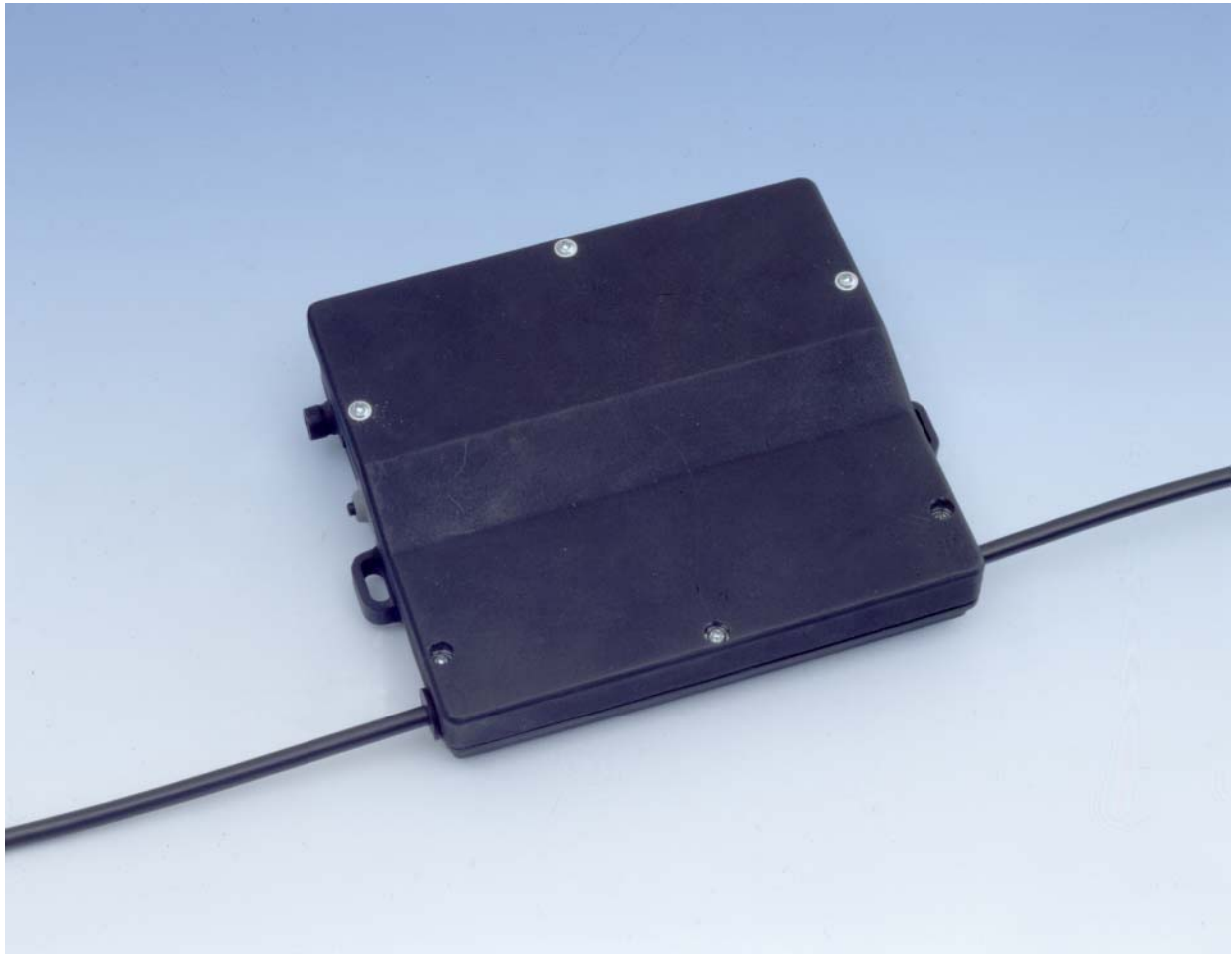
***Accessories:***

decoupler against big vibration	on request
measurement range enlarger (>4mm)	on request
measurement base enlarger	on request

Questions, requirements? Please contact us at: [www.osmos-group.com](http://www.osmos-group.com)



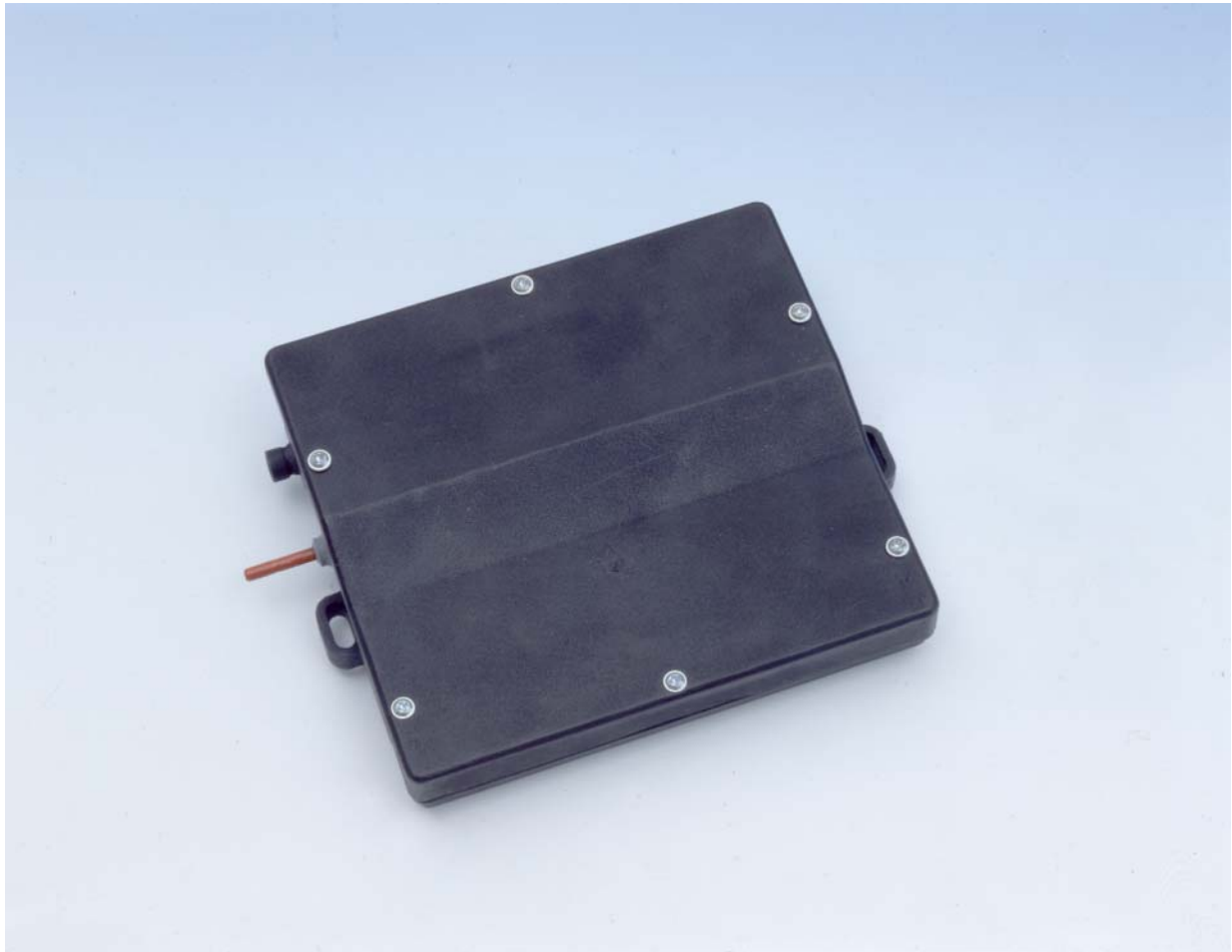
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**Zurück zum  
Presstext**



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