T.Rex provides a complete solution to exit detection and door surveillance for access control applications. Outstanding innovations such as X-Y Targeting and DSP implementation make T.Rex the fastest and most reliable exit detector on the market today.

X-Y Targeting detects movement in very specific areas for added security. T.Rex is the first detector on the market to offer vertical targeting using two adjustable louvers located in the detection chamber. The installer “trims” the detection area by adjusting these louvers from 90° down to 5° and rotates the lens for horizontal adjustments. These two adjustments allow the installer to mount the detector so that the detection area will not “hit” the floor along the doorjamb, defeating any attempt to circumvent door supervision by sliding objects under the door.

T.Rex utilizes infrared detection coupled with DSP sampling specifically designed for access control applications. Since a truly effective exit detector must detect the extremely fast movement of a hand (the target) about to push the door or turn the door handle, the low sensitivity of intrusion detection alone is inadequate. Coupling the intrusion detection with DSP allows T.Rex to accurately detect exits and trigger appropriate “Door Forced Open” alarms.
**General**

Detector Type: Passive infrared  
Filter Technology: Digital Signal Processing (DSP)  
Detector Lens: Curtain-type Fresnel lens  
Detection Range:  
Narrow Targeting Area: 3 m (10 ft)  
Whole Body: 6 m (20 ft)  
Piezo Buzzer: 90 dB at 28 VDC, 5-28 VDC, 20 mA (XL & XL2 only)  
Main Relay Contacts: SPDT, 1A max @ 30 VDC max  
Main Relay Timer: Adjustable, 0.5 to 60 seconds  
Main Relay Recycle Timer: Fixed, 0.75 seconds off  
Lock Control Relay: Available on LT2 and XL2 models only, solid-state relay, N.C., 2A max @ 30 VDC, timed at 2 seconds fixed  
Tamper Switch: N.C., 100 mA max @ 30 VDC max  
Indicator Light: Red/Green LED  
Mounting: Optional backplate available for mounting the T.REX on a standard single-gang electrical box

**Physical**

Dimensions (H x W x D): 4.5 x 19 x 4.75 cm  
(1.75 x 7.125 x 1.875 in)

**Electrical**

Power Consumption: 12-28 VDC, 50 mA

**Regulatory**

Certifications: UL294, CE, FCC, ULC

**Model Numbers**

T.REX-LT: T.Rex request to exit detector, with tamper and timer, white  
T.REX-XL: T.Rex request to exit detector, with tamper, piezo, and timer, white  
T.REX-LT2: T.Rex request to exit detector, with tamper, timer, and 2 relays, white  
T.REX-XL2: T.Rex request to exit detector, with tamper, piezo, timer, and 2 relays, white  
T.REX-XLBLK: T.Rex request to exit detector, with tamper, piezo, and timer, black  
T.REX-XL2BLK: T.Rex request to exit detector, with tamper, piezo, timer, and 2 relays, black  
T.REX-PLATE: T.REX accessory, back plate, white

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**Product Diagram**

- Tamper switch N.C.  
- Function selection jumpers: Latch, fast/slow detection, LED disable  
- Integrated 90 dB piezo for door alarm controlled by remote panel or through on-board relay (5-28 VDC)  
- Main relay and lock control relay  
- Power terminals and tamper output  
- On-board computer  
- X-Y targeting using two adjustable louvers to target a specific area of detection such as a door handle or panic bar  
- Detection Pattern  
- Single Door Mounting Positions  
- T.Rex Plate