



**SAFETY SENSOR FOR  
AUTOMATICS SWING DOORS  
REM-90**

Os sensores REM90 tem como objetivo a proteção e ou detecção de pessoas e de objetos. Por contas de suas aplicações específicas de detecção, são especialmente indicadas para a utilização em portas de batente e ou pivotante automáticas.



## ESPECIFICAÇÕES TÉCNICAS

Technology:	active infrared with background suppression
Emission field:	400 mm (W) x 70 mm (D) (at 2 m mounting height; 4 spots active)
Mounting height:	1.3 m to 3.5 m
Reaction time:	64 ms (typ)
Max. presence time:	infinite
Supply voltage:	12 V - 24 V AC +/-10% ; 12 V - 30 V DC -5%/+10% (to be operated from SELV compatible power supplies only)
Max current consumption:	95 mA @ 24 V AC/ 70 mA @ 24 V DC; 170 mA @ 12 V AC/ 130 mA @ 12 V DC (MASTER) 85 mA @ 24 V AC/ 60 mA @ 24 V DC; 180 mA @ 12 V AC/ 113 mA @ 12 V DC (other modules)
Output:	2 relays (free of potential contact)
Max. contact voltage	42 V AC/DC
Max. contact current	1 A (resistive)
Max. switching power	30 W (DC) / 60 VA (AC)
Input:	1 optocoupler (free of potential contact)
Max. contact voltage:	30 V
Voltage threshold:	high: >10 V DC; low: <1 V DC
Max. number of modules:	4 (up to 6 if 24 V DC)
Reflectivity:	min. 5% at IR-wavelength of 850 nm
Degree of protection:	IP54
Temperature range:	-25 °C to +55 °C; 0-95% relative humidity, non condensing
Expected lifetime:	20 years
Conformity:	DIN 18650-1: ch. 5.7.4; EN 16005 ch. 4.6.8; EN 12978; IEC/EN 61508 (SIL2) EN ISO 13849-1 Performance Level «c» CAT. 2 (under the condition that the door control system monitors the sensor at least once per door cycle)