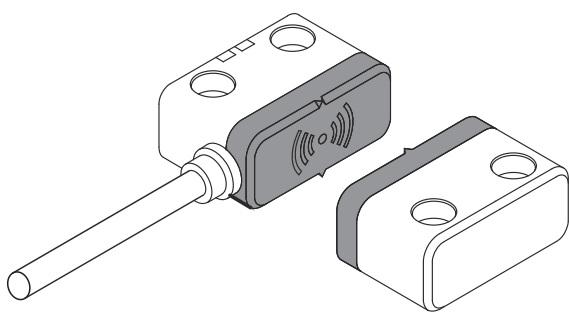


OX-H1 series

Non-contact Safety Door Switch

Operation Instructions

- ★ Adopts radio frequency induction coding technology, with higher security and confidentiality
- ★ Strong anti-interference, safe and reliable
- ★ Universal coding type and single coding type optional
- ★ Prevents abnormal human triggering
- ★ Sensors can be activated from 3 sides
- ★ Supports up to 30 sensors cascaded
- ★ Standard size actuators and flat actuators optional



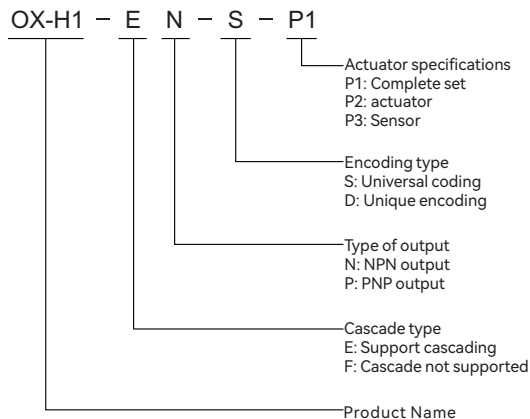
OX-H1 series model specifications

Characteristic				
Universal coding type	OX-H1-FN-S-□	OX-H1-FP-S-□	OX-H1-EN-S-□	OX-H1-EP-S-□
Unique encoding type	OX-H1-FN-D-□	OX-H1-FP-D-□	OX-H1-EN-D-□	OX-H1-EP-D-□
Output type	NPN	PNP	NPN	PNP
Cascade	Cascading is not supported		Support cascade	
Horizontal conduction distance	0-10mm			
Horizontal break distance	> 25mm			
Vertical conduction distance	0-6mm			
Vertical break distance	> 15mm			
Repeatability	0.5mm			
Operating voltage	24VDC			
Working current	30mA			
Safe output current	150mA			
Auxiliary output current	50mA			
Response time	60ms			
Protection level	IP67(EN60947-5-1)			
Coding level	Universal encoding	Low level coded (ISO 14119)		
	Unique code	High level coded (ISO 14119)		
Interlocking type	Type 4(ISO14119)			
Operating frequency	1Hz			
Operating temperature	-10°C~+55°C°			
Relative humidity	5%-95%			
Material	Thermoplastic PBT			
Cascade	Support cascade model optional			
Diagnostic output	Support			
Connection method	Direct outlet, cable length 3 meters			

▲ Note 1: Universal coding sensors and actuators can be randomly paired for use;
 Note 2: When a single coding type is used for the first time, the sensor will record the actuator code for pairing. After pairing is completed, the sensor can only recognize the current actuator. If you need to re-pair the actuator, please contact our technical support.

Selection example

● Model

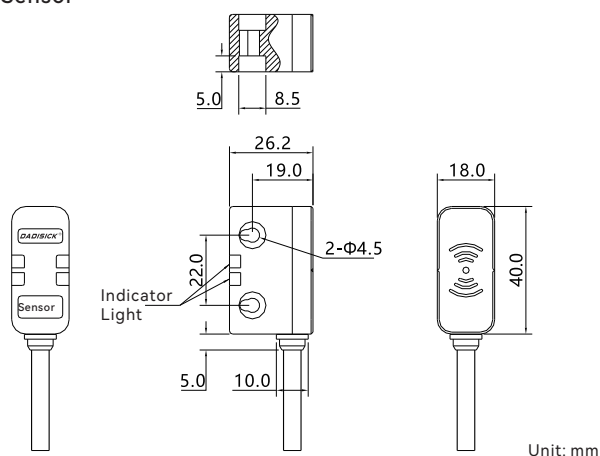


● Single actuator model

Standard actuator model: OX-H1

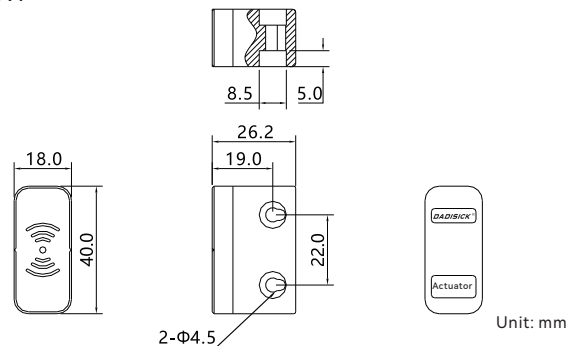
Size chart

● Sensor



● Standard actuator

OX-H1

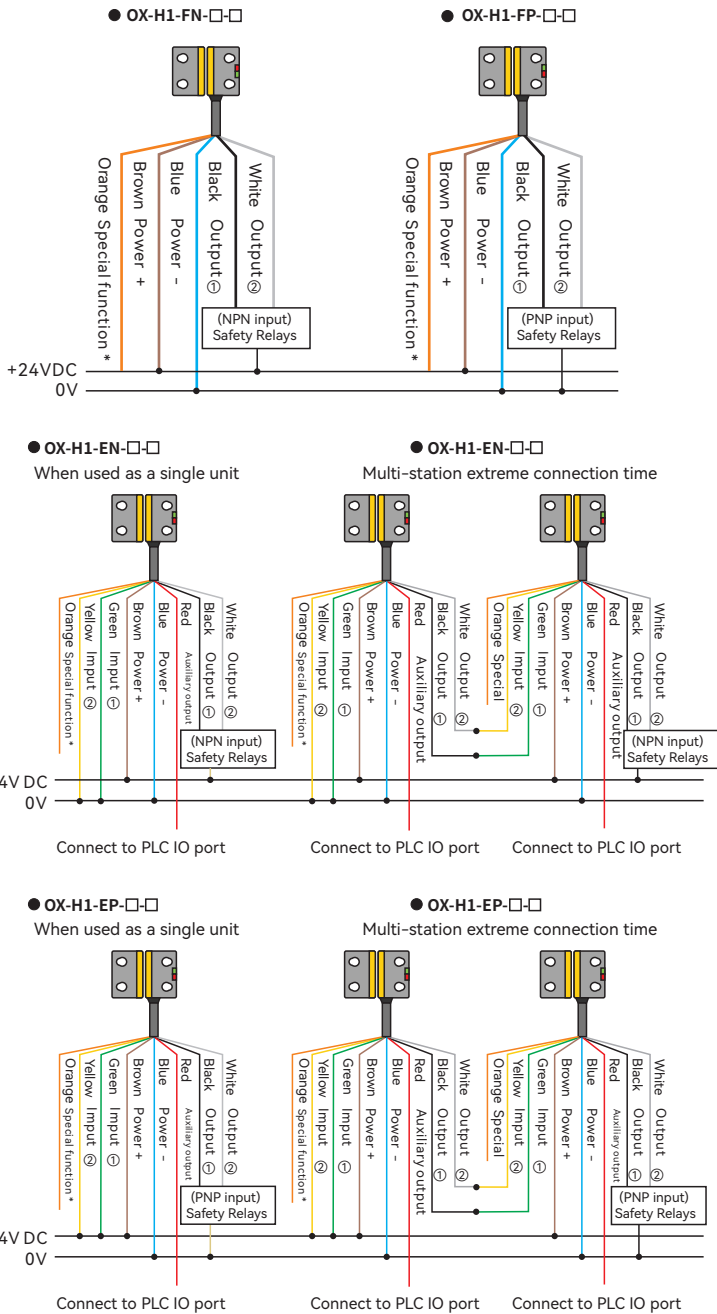


Indicator status

LED display	Signal status	Status description		
		Input	Output	
	The red light lights up for 1 second and then flashes 2 times	Valid / invalid	Open	No actuator or incomplete alignment
	Red light flashes at 4Hz	Valid	Open	Over load
	Green light flashes at 1Hz	Invalid	Open	No input signal (only applicable to cascading models)
	Green light is always on	Valid	Path	Normal induction
	Traffic lights flash alternately	Valid / invalid	Open	Unregistered actuator (only applicable to single code models)

Note: When using a single code for the first time, the sensor will record the code of the actuator for pairing. After the safety switch is installed and the door is closed and powered on for 5 seconds, the safety switch will display a green light and remain on, indicating successful pairing.

Wiring method



- 1: When using a single unit, please connect safety inputs 1 and 2 to 0V for NPN type, and 2 to 24VDC for PNP type, and connect safety outputs 1 and 2 to the safety controller;
 - 2: When cascading multiple units, please connect safety inputs 1 and 2 to 0V for NPN type, and 2 to 24VDC for PNP type. The first unit's safety outputs 1 and 2 are connected to the second unit's safety inputs, and so on. The last unit's safety outputs 1 and 2 are connected to the safety controller;
 - 3: The auxiliary output is connected to the PLC's IO port to monitor the current switch status of the safety door;
- ※ The orange special function line is not yet open for use.

Line color definition

Color	OX-H1-FN-S-□	OX-H1-FP-S-□	OX-H1-EN-S-□	OX-H1-EP-S-□
Brown	24V DC			
Blue	0V			
Green	Null		Safety Input 1(0V)	Safety Input 1(24V)
Yellow	Null		Safety Input 2(0V)	Safety Input 2(24V)
Black	Safety Output 1(NPN)	Safety Output 1(PNP)	Safety Output 1(NPN)	Safety Output 1(PNP)
White	Safety Output 2(NPN)	Safety Output 2(PNP)	Safety Output 2(NPN)	Safety Output 2(PNP)
Red	Null		Auxiliary output (NPN)	Auxiliary output (PNP)
Orange	Special function line			

Sensing distance

Standard actuator

Sensor and actuator location	Safe conduction distance (X direction)	Safe disconnection distance (X direction)
	0-10mm	≥25mm
	0-6mm	≥15mm
	0-6mm	≥15mm

! Note | It is not recommended to use when the deviation in the Y direction exceeds ±5mm.

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We reserve the right to make technical changes