# Safety Light Curtains
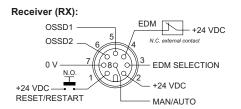## Category 4 (EN61496-1)

Note: The product images shown may change over time as products are updated.

## Features

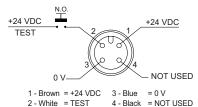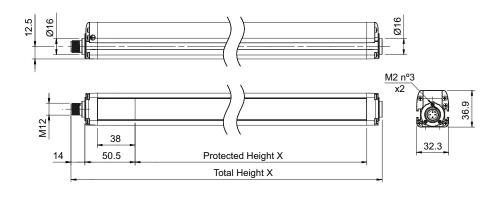Safety Light Curtains are used for the safety protection of people. Special safety rated redundant circuits provide confidence to machine designers and machine operators that once the beam is broken, the machine will become safe. Category 4 safety light curtains are available with small beam pitches to detect a finger or a hand, or with larger beam pitches to detect a larger body part. HTM Sensors safety light curtains are very easy to install with mounting brackets that attach to the top and bottom caps, or that fit inside the c-channel on the sides and have great prices to keep machines safe and within budget.

## Part Number

**HSC4-14-24**

## Connection

**Receiver (RX):**



- OSSD1
- EDM — +24 VDC — N.C. external contact
- OSSD2 — 5, 4
- 6
- 0 V — 7, 8, 3 — EDM SELECTION
- N.O. — 1, 2 — +24 VDC
- +24 VDC — RESET/RESTART
- MAN/AUTO

1 - White = RESET/RESTART (*)
2 - Brown = +24 VDC
3 - Green = EDM SELECTION (1)
4 - Yellow = EDM
5 - Grey = OSSD1
6 - Pink = OSSD2
7 - Blue = 0 V
8 - Red = MAN/AUTO RESTART (2)

(*) Automatic RESTART → RESET Function
    Manual RESTART → RESET / RESTART function
(1) To disable the EDM function, connect the EDM selection wire to +24 VDC
(2) For MANUAL RESTART, connect the MANUAL/AUTO selection wire to the OSSD2.
    For AUTO RESTART, connect the MANUAL/AUTO selection wire to the OSSD1.

**Emitter (TX):**



- N.O.
- +24 VDC — TEST — 2, 1 — +24 VDC
- 3, 4
- 0 V — NOT USED

1 - Brown = +24 VDC
2 - White = TEST
3 - Blue = 0 V
4 - Black = NOT USED

## Technical Data

| | |
|---|---|
| Protection Type | Finger Protection |
| Resolution | 14 mm |
| Protected Height | 600 mm |
| Total Housing Height | 683.2 mm |
| Operating Distance | 0.2 m - 6 m |
| Power Supply | 24 VDC |
| Outputs | 2 PNP |
| Output Current | 0.5 A max/output |
| Capacitive Load | 2.2 uF @24 VDC max |
| Response Time | 22 ms |
| Maximum Cable Length | 50 m max |
| Operating Temperature | 0 ºC to +55 ºC |
| Humidity | 15-95% (no condensation) |
| Mechanical Protection | IP65 (EN 60529) |
| Test Input | On Emitter |
| Restart Function | Manual/Automatic Restart |
| External Device Monitoring (EDM) | On Receiver |

## Dimensions



- 12.5
- Ø16
- Ø16
- M12
- M2 nº3 x2
- 36.9
- 32.3
- 14
- 50.5
- 38
- Protected Height X
- Total Height X

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HTM SENSORS

3 YEAR WARRANTY