

**HTM**<sup>TM</sup>  
**SENSORS**

HAND PROTECTION  
30 mm / 1/18 in. RESOLUTION



- CATEGORY 4 SAFETY LIGHT CURTAINS
- RUGGED C-CHANNEL ALUMINUM HOUSING WITH ROTATING BRACKETS
- AVAILABLE FROM 6" TO 70" PROTECTIVE HEIGHT
- FAST RESPONSE TIMES, AND LONG 19 m OPERATING DISTANCE
- AVAILABLE WITH MIRRORS, AND IP69 ENCLOSURES
- DIGITAL DISPLAY FOR DIAGNOSTICS AND EASY ALIGNMENT

**SAFETY LIGHT CURTAINS - CATEGORY 4  
HAND PROTECTION SPECIFICATIONS**



**CV-A1-20-B03 / B10**



**CSME-03VU24-Y14**



**CABLES (3 m / 10 m)**

**RELAY**

**HSC4-30**



**LIGHT CURTAINS**

MODEL	BEAMS	RESPONSE TIME	PROTECTIVE HEIGHT	TOTAL HEIGHT
HSC4-30-06	8	9 ms	150 mm (5.91 in.)	233.3 mm
HSC4-30-12	16	11 ms	300 mm (11.81 in.)	383.2 mm
HSC4-30-18	24	13 ms	450 mm (17.72 in.)	533.2 mm
HSC4-30-24	32	15 ms	600 mm (23.62 in.)	683.2 mm
HSC4-30-30	40	16 ms	750 mm (29.53 in.)	833.2 mm
HSC4-30-36	48	18 ms	900 mm (35.43 in.)	983.2 mm
HSC4-30-42	56	19 ms	1050 mm (41.34 in.)	1133.2 mm
HSC4-30-48	64	21 ms	1200 mm (47.24 in.)	1283.3 mm
HSC4-30-54	72	23 ms	1350 mm (53.15 in.)	1433.2 mm
HSC4-30-60	80	25 ms	1500 mm (59.06 in.)	1583.3 mm
HSC4-30-65	88	26 ms	1650 mm (64.96 in.)	1733.3 mm
HSC4-30-70	96	28 ms	1800 mm (70.87 in.)	1883.3 mm




NOTE: Specifications subject to change without notification.

CATEGORY 4 SAFETY LIGHT CURTAINS ARE IDEAL FOR PROTECTING PEOPLE FROM DANGEROUS MACHINERY WHERE HARD GUARDS ARE NOT PRACTICAL.



# TECHNICAL DATA

## HSC2 / HSC4 STANDARD SERIES

	<b>HSC2-30</b>	<b>HSC4-14</b>	<b>HSC4-30</b>
			
Safety Category	Type 2		Type 4
Range	0.2...19m (0.656...62.3 ft.)	0.2...6m (0.656...19.69 ft.)	0.2...19m (0.656...62.3 ft.)
Controlled Height:	150...1800 mm		
Resolution	30mm (1.18 in.)	14mm (0.551 in.)	30mm (1.18 in.)
Power Supply	24 VDC ±20%		
Consumption	2 W (emitter) 3.5W (receiver without load)	2.5W (emitter) 3.5 W (receiver without load)	
OSSD Outputs	2 PNP		
Output Current	0.5 A max. per output		
Output Voltage	ON Status: Vdd -1 V min. OFF Status: 0.2 V max.		
Capacitive Load	2.2 µF @ 24 Vdc max.		
Mechanical Protection	IP65 (EN 60529)		
Electrical Protection	Class I / Class III		
Short-circuit Protection:	1.4 A max.		
Housing Material	Painted aluminum ( yellow RAL 1003) with PMMA Lens and PC MAKROLON End Caps		
Emitter Connection	M12, 4-pole connector		
Receiver Connection	M12, 5-pole connector	M12, 8-pole connector	
Light Emission	Infrared LED (950 nm)		
Aperture Angle (EAA)	± 5°	±2.5°	
Ambient Light Rejection	IEC-61496-2		
Cable Length	3m (9.8 ft.) or 10m (32.8 ft.) cable lengths (up to 50m max.) with 50nF capacitive load		
Weight	1 kg. max./m of total height	1.3 Kg. max./m of total height	
Operating Temperature	+14...+131°F (0...+55°C)		
Storage Temperature	-13...+158°F (-25...+70°C)		
Vibrations	0.35 mm amplitude 10 ... 55 Hz frequency, 20 sweep per axis 1 octave/min (EN 60068-2-6)		
Shock Resistance	16 ms (10 g) 1.000 shock per axis (EN 60068-2-29)		