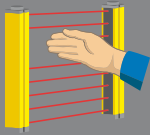


# LIGHT CURTAINS BASIC

## HAND PROTECTION TYPE 2

### MAIN FEATURES

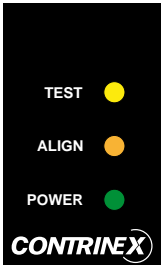
- ✓ Resolution: 30 mm
- ✓ Operating range: 0.25 ... 12 m
- ✓ Protective height: 150 ... 1827 mm
- ✓ Category 2, PL c according to EN/ISO 13849-1
- ✓ Type 2 according to IEC 61496-1 and -2
- ✓ Certified TÜV, CE
- ✓ Housing profile 42 mm x 48 mm
- ✓ Enclosure rating IP 65, IP 67
- ✓ Optical synchronization
- ✓ Permanent autocontrol



# HAND PROTECTION

## LEDS

LED indicators on the YBB **sender** unit



### Test:

Yellow when intrusion simulation is active  
Off when there is no intrusion simulation

### Alignment:

Steady orange when the lowest beam is not aligned

Quick blinking orange when the lowest beam is aligned

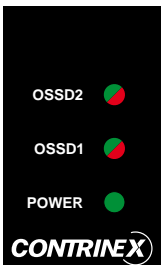
Blinking orange when at least 6 beams are aligned

Off when screen is fully aligned

### Power:

Green when power is ON

LED indicators on the YBB **receiver** unit



### OSSD2:

Green when OSSD2 is ON  
Red when OSSD2 is OFF

### OSSD1:

Green when OSSD1 is ON  
Red when OSSD1 is OFF

### Power:

Green when power is ON

## TECHNICAL DATA

Dimensions	42 mm x 48 mm x Ht
Resolution	30 mm
Protective height	150 ... 1827 mm
Supply voltage range	24 VDC $\pm$ 20 %
Current consumption sender	27 mA max. / 0.8 W max.
Current consumption receiver (excl. load)	58 mA max. / 1.7 W max.
Output current	0.2 A max. per output
Safety level (EN/ISO 13849-1)	Category 2, PLc
Safety type (IEC 61496-1 and -2)	Type 2
Protection class (IEC 61140)	III
Ambient temperature range	0 ... +50°C (+32 ... +122°F)
Storage temperature range	-25 ... +70°C (-13 ... +158°F)
Degree of protection (EN 60529)	IP 65 + IP 67
Housing material	Aluminum
Material of optical parts	PMMA
Operating range	0.25 ... 12 m
Sender wavelength	IR 850 nm

## HOUSING

Aluminum profile 42 mm x 48 mm with dual fixing groove.

## ELECTRONIC PROTECTION

Safetinx light curtains are self-protected against overloads and short-circuits. They can also withstand short high-voltage overloads.

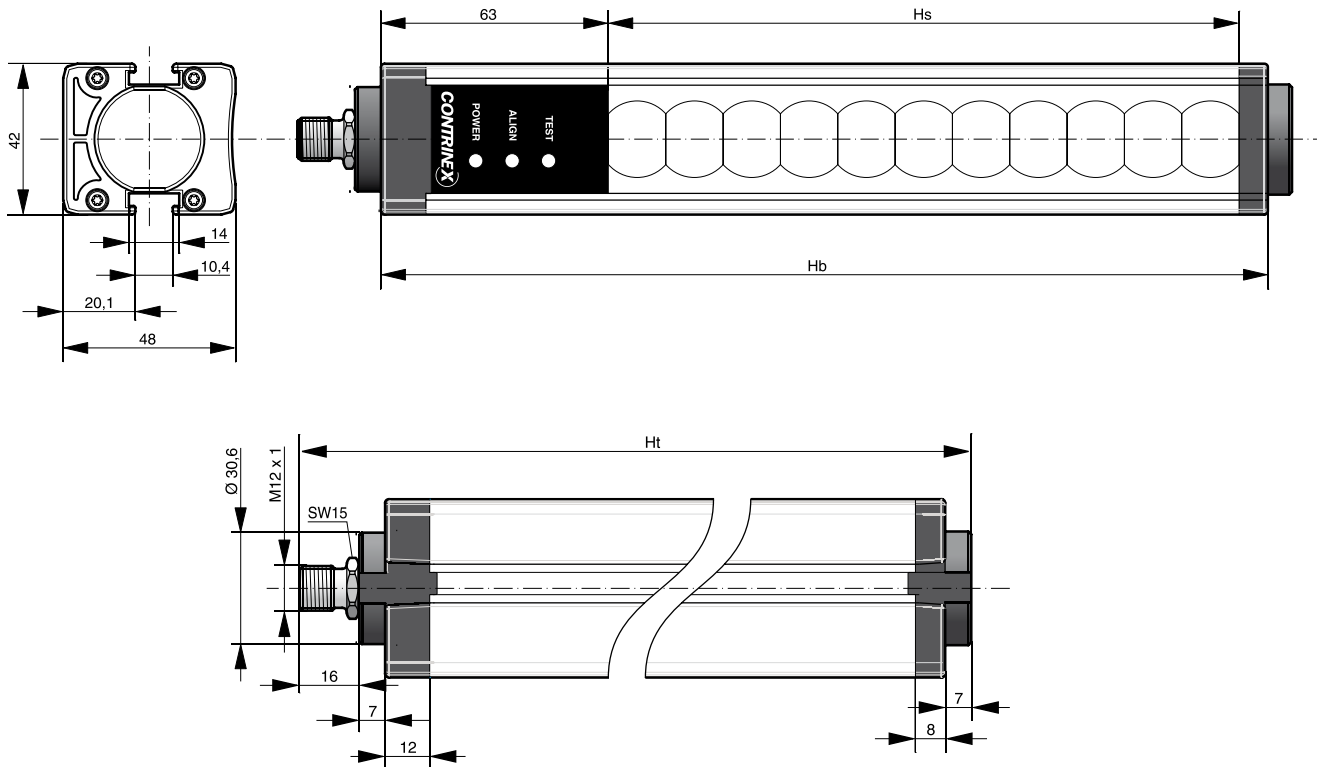
## CONNECTION

Safetinx light curtains are connected via a standard M12 5-pole connector.

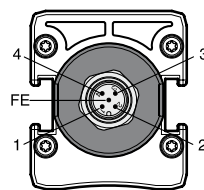
## DOCUMENTATION

Detailed data sheets for these products can be found on the Contrinex website [www.contrinex.com](http://www.contrinex.com) or ordered free of charge from our distributors.

## DIMENSIONS

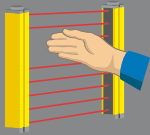


## PIN ASSIGNMENT



M12 connector

ASSIGNMENT	FUNCTION	PINS ON SENDER		PINS ON RECEIVER	
		M12 CONNECTOR	CABLE	M12 CONNECTOR	CABLE
Supply voltage	24 VDC	1	brown	1	brown
Supply voltage	0 V	3	blue	3	blue
Test mode	0 V: test active / 24 V: test inactive	4	black	-	-
Output	OSSD1	-	-	2	white
Output	OSSD2	-	-	4	black
Functional earth	Shield	FE	gray	FE	gray



# HAND PROTECTION



## TYPE-SPECIFIC DATA

Type	0150	0250	0400	0500
Total height (Ht) [mm]	251	380	509	638
Housing height (Hb) [mm]	221	350	479	608
Protective height (Hs) [mm]	150	279	408	537
Number of beams	9	17	25	33
Current consumption [mA]	70	74	77	79
Response time [ms]	14	18	22	26

## PART REFERENCE (BOLD: PREFERRED TYPES)

PNP / Connector M12	Sender	YBB-30S2-0150-G012	YBB-30S2-0250-G012	YBB-30S2-0400-G012	YBB-30S2-0500-G012
	Receiver	YBB-30R2-0150-G012	YBB-30R2-0250-G012	YBB-30R2-0400-G012	YBB-30R2-0500-G012
	Kit (sender + receiver)	<b>YBB-30K2-0150-G012</b>	<b>YBB-30K2-0250-G012</b>	<b>YBB-30K2-0400-G012</b>	<b>YBB-30K2-0500-G012</b>

## TYPE-SPECIFIC DATA

Type	0700	0800	0900	1000
Total height (Ht) [mm]	767	896	1025	1154
Housing height (Hb) [mm]	737	866	995	1124
Protective height (Hs) [mm]	666	795	924	1053
Number of beams	41	49	57	65
Current consumption [mA]	80	81	81	82
Response time [ms]	30	34	38	42

## PART REFERENCE (BOLD: PREFERRED TYPES)

PNP / Connector M12	Sender	YBB-30S2-0700-G012	YBB-30S2-0800-G012	YBB-30S2-0900-G012	YBB-30S2-1000-G012
	Receiver	YBB-30R2-0700-G012	YBB-30R2-0800-G012	YBB-30R2-0900-G012	YBB-30R2-1000-G012
	Kit (sender + receiver)	<b>YBB-30K2-0700-G012</b>	<b>YBB-30K2-0800-G012</b>	<b>YBB-30K2-0900-G012</b>	<b>YBB-30K2-1000-G012</b>

## TYPE-SPECIFIC DATA

Type	1200	1300	1400	1600
Total height (Ht) [mm]	1283	1412	1541	1670
Housing height (Hb) [mm]	1253	1382	1511	1640
Protective height (Hs) [mm]	1182	1311	1440	1569
Number of beams	73	81	89	97
Current consumption [mA]	83	83	84	84
Response time [ms]	46	50	54	58

## PART REFERENCE (BOLD: PREFERRED TYPES)

PNP / Connector M12	Sender	YBB-30S2-1200-G012	YBB-30S2-1300-G012	YBB-30S2-1400-G012	YBB-30S2-1600-G012
	Receiver	YBB-30R2-1200-G012	YBB-30R2-1300-G012	YBB-30R2-1400-G012	YBB-30R2-1600-G012
	Kit (sender + receiver)	<b>YBB-30K2-1200-G012</b>	<b>YBB-30K2-1300-G012</b>	<b>YBB-30K2-1400-G012</b>	<b>YBB-30K2-1600-G012</b>

## TYPE-SPECIFIC DATA

Type	1700	1800		
Total height (Ht) [mm]	1799	1928		
Housing height (Hb) [mm]	1769	1898		
Protective height (Hs) [mm]	1698	1827		
Number of beams	105	113		
Current consumption [mA]	85	85		
Response time [ms]	62	66		

## PART REFERENCE (BOLD: PREFERRED TYPES)

PNP / Connector M12	Sender	YBB-30S2-1700-G012	YBB-30S2-1800-G012		
	Receiver	YBB-30R2-1700-G012	YBB-30R2-1800-G012		
	Kit (sender + receiver)	<b>YBB-30K2-1700-G012</b>	<b>YBB-30K2-1800-G012</b>		