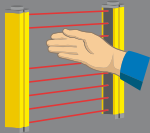


LIGHT CURTAINS BASIC

HAND PROTECTION TYPE 4

MAIN FEATURES

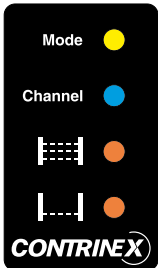
- ✓ Resolution: 30 mm
- ✓ Operating range: 0.25 ... 12 m
- ✓ Protective height: 279 ... 1827 mm
- ✓ Category 4, PL e according to EN/ISO 13849-1
- ✓ Type 4 according to IEC 61496-1 and -2
- ✓ Certified TÜV, CE and UL
- ✓ IP 65, IP 67 with operating temperatures as low as -35°C (-31°F)
- ✓ Housing profile 42 mm x 48 mm
- ✓ 2-channel selection
- ✓ Optical synchronization
- ✓ Permanent autocontrol



HAND PROTECTION

LEDS

LED indicators on the YBB **sender** unit



Mode:

Yellow when test mode is active

Channel:

Blue when channel 1 is selected

Purple when channel 2 is selected

Alignment (full):

Steady orange when the screen is not fully aligned

Blinking orange when the first third of the screen is aligned

Off when screen is fully aligned

Alignment (low beam):

Steady orange when the lowest beam is not aligned

Blinking orange when the lowest beam is aligned

Off when screen is fully aligned

LED indicators on the YBB **receiver** unit



Power:

Green when power is ON

Channel:

Blue when channel 1 is selected

Purple when channel 2 is selected

Status ON:

Green when OSSD outputs are ON

Status OFF:

Red when OSSD outputs are OFF

TECHNICAL DATA

Dimensions	42 mm x 48 mm x Ht
Resolution	30 mm
Protective height	279 ... 1827 mm
Supply voltage range	24 VDC ± 20 %
Current consumption sender	45 mA max. / 1.5 W max.
Current consumption receiver (excl. load)	130 mA max. / 4.7 W max.
Output current	0.2 A max. per output
Safety level (EN/ISO 13849-1)	Category 4, PLe
Safety type (IEC 61496-1 and -2)	Type 4
Protection class (IEC 61140)	III
Ambient temperature range	-35 ... +60°C (-31 ... +140°F)
Storage temperature range	-40 ... +70°C (-40 ... +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.

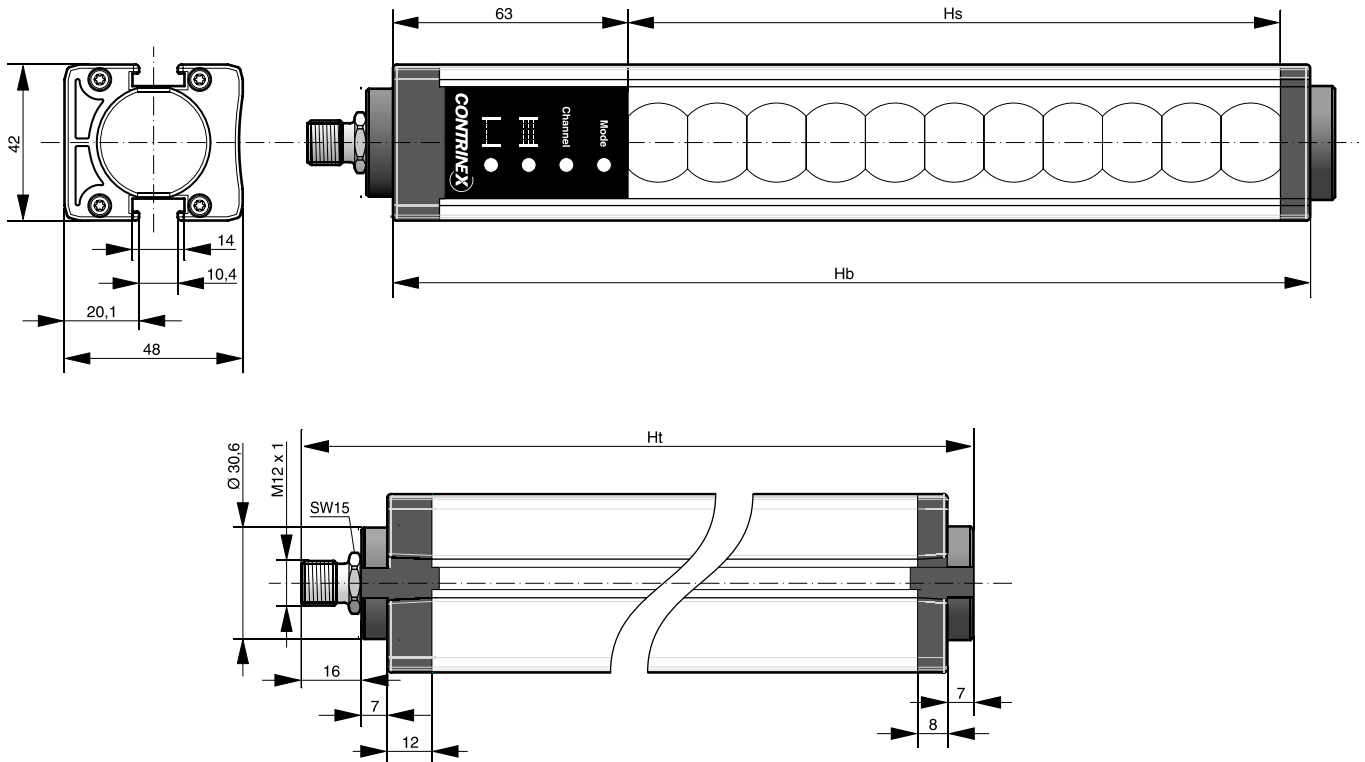
CONNECTION

Safetinx light curtains with M12 5-pole connector are standard.

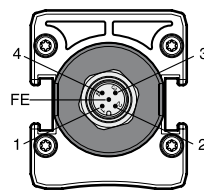
DOCUMENTATION

Detailed data sheets for these products can be found on the Contrinex website www.contrinex.com or ordered free of charge from our distributors.

DIMENSIONS

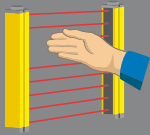


PIN ASSIGNMENT



M12 connector

ASSIGNMENT	FUNCTION	PINS/WIRES ON SENDER		PINS/WIRES ON RECEIVER	
		M12 CONNECTOR	CABLE	M12 CONNECTOR	CABLE
Supply voltage	24 VDC for channel 1 / 0 V for channel 2	1	brown	1	brown
Supply voltage	0 V for channel 1 / 24 VDC for channel 2	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	0250	0400	0500
Total height (Ht) [mm]	380	509	638
Housing height (Hb) [mm]	350	479	608
Protective height (Hs) [mm]	279	408	537
Number of beams	17	25	33
Current consumption [mA]	125	130	130
Response time [ms]	5.2	6.8	8.4

PART REFERENCE (BOLD: PREFERRED TYPES)

PNP / Connector M12	Sender	YBB-30S4-0250-G012	YBB-30S4-0400-G012	YBB-30S4-0500-G012
	Receiver	YBB-30R4-0250-G012	YBB-30R4-0400-G012	YBB-30R4-0500-G012
	Kit (sender + receiver)	YBB-30K4-0250-G012	YBB-30K4-0400-G012	YBB-30K4-0500-G012

TYPE-SPECIFIC DATA

Type	1200	1300	1400
Total height (Ht) [mm]	1283	1412	1541
Housing height (Hb) [mm]	1253	1382	1511
Protective height (Hs) [mm]	1182	1311	1440
Number of beams	73	81	89
Current consumption [mA]	150	155	160
Response time [ms]	16.4	18	19.6

PART REFERENCE (BOLD: PREFERRED TYPES)

PNP / Connector M12	Sender	YBB-30S4-1200-G012	YBB-30S4-1300-G012	YBB-30S4-1400-G012
	Receiver	YBB-30R4-1200-G012	YBB-30R4-1300-G012	YBB-30R4-1400-G012
	Kit (sender + receiver)	YBB-30K4-1200-G012	YBB-30K4-1300-G012	YBB-30K4-1400-G012



0700767
737
666
41
135
10**0800**896
866
795
49
140
11.6**0900**1025
995
924
57
140
13.2**1000**1154
1124
1053
65
145
14.8YBB-30S4-0700-G012
YBB-30R4-0700-G012
YBB-30K4-0700-G012YBB-30S4-0800-G012
YBB-30R4-0800-G012
YBB-30K4-0800-G012YBB-30S4-0900-G012
YBB-30R4-0900-G012
YBB-30K4-0900-G012YBB-30S4-1000-G012
YBB-30R4-1000-G012
YBB-30K4-1000-G012**1600**1670
1640
1569
97
160
21.2**1700**1799
1769
1698
105
165
22.8**1800**1928
1898
1827
113
170
24.4YBB-30S4-1600-G012
YBB-30R4-1600-G012
YBB-30K4-1600-G012YBB-30S4-1700-G012
YBB-30R4-1700-G012
YBB-30K4-1700-G012YBB-30S4-1800-G012
YBB-30R4-1800-G012
YBB-30K4-1800-G012