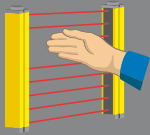


LIGHT CURTAINS BASIC

HAND PROTECTION TYPE 2 SLIM

MAIN FEATURES

- ✓ Resolution: 30 mm
- ✓ Operating range: 0.25 ... 8 m
- ✓ Protective height: 170 ... 1610 mm
- ✓ No blind zone
- ✓ Category 2, PL c according to EN/ISO 13849-1
- ✓ Type 2 according to IEC 61496-1 and -2
- ✓ Certified TÜV, CE
- ✓ Enclosure rating IP 65
- ✓ Housing profile 26 mm x 26 mm
- ✓ Optical synchronization
- ✓ Permanent autocontrol



HAND PROTECTION

LEDS

LED indicators on the YBBS **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
Slow 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 YBBS **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	26 mm x 26 mm x Ht
Resolution	30 mm
Protective height	170 ... 1610 mm
Supply voltage range	24 VDC \pm 20 %
Current consumption sender	42 mA max. / 1.2 W max.
Current consumption receiver (excl. load)	29 mA max. / 0.8 W max.
Output current	max. 400 mA per output (at 50°C / 122°F)
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 ... +55°C (+32 ... +131°F)
Storage temperature range	-25 ... +70°C (-13 ... +158°F)
Degree of protection (EN 60529)	IP 65
Housing material	Aluminum profile, PC front screen
Material of optical parts	PMMA
Operating range	0.25 ... 8 m
Sender wavelength	IR 850 nm

HOUSING

Aluminum profile 26 mm x 26 mm with dual fixing groove.

ELECTRONIC PROTECTION

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

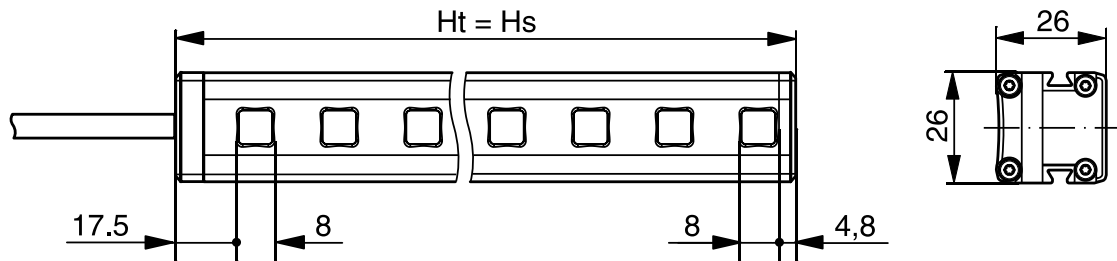
CONNECTION

Safetindex light curtains are connected via a standard M12 5-pole pigtail.

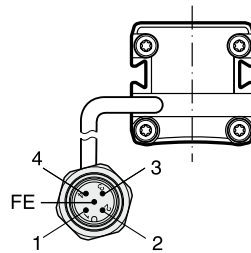
DOCUMENTATION

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

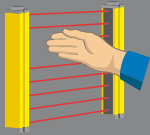


PIN ASSIGNMENT



M12 pigtail

ASSIGNMENT	FUNCTION	PINS/WIRES ON SENDER		PINS/WIRES ON RECEIVER	
		M12	OPEN CABLE	M12	OPEN 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	0170	0330	0490	0650
Total height (Ht) [mm]	170	330	490	650
Protective height (Hs) [mm]	170	330	490	650
Number of beams	8	16	24	32
Current consumption [mA]	42	49	54	57
Response time [ms]	6	9	11	14

PART REFERENCE (BOLD: PREFERRED TYPES)

PNP / Connector M12	Sender	YBBS-30S2-0170-P012	YBBS-30S2-0330-P012	YBBS-30S2-0490-P012	YBBS-30S2-0650-P012
	Receiver	YBBS-30R2-0170-P012	YBBS-30R2-0330-P012	YBBS-30R2-0490-P012	YBBS-30R2-0650-P012
	Kit (sender + receiver)	YBBS-30K2-0170-P012	YBBS-30K2-0330-P012	YBBS-30K2-0490-P012	YBBS-30K2-0650-P012

TYPE-SPECIFIC DATA

Type	0810	0970	1130	1290
Total height (Ht) [mm]	810	970	1130	1290
Protective height (Hs) [mm]	810	970	1130	1290
Number of beams	40	48	56	64
Current consumption [mA]	61	63	65	67
Response time [ms]	16	19	21	24

PART REFERENCE (BOLD: PREFERRED TYPES)

PNP / Connector M12	Sender	YBBS-30S2-0810-P012	YBBS-30S2-0970-P012	YBBS-30S2-1130-P012	YBBS-30S2-1290-P012
	Receiver	YBBS-30R2-0810-P012	YBBS-30R2-0970-P012	YBBS-30R2-1130-P012	YBBS-30R2-1290-P012
	Kit (sender + receiver)	YBBS-30K2-0810-P012	YBBS-30K2-0970-P012	YBBS-30K2-1130-P012	YBBS-30K2-1290-P012

TYPE-SPECIFIC DATA

Type	1450	1610		
Total height (Ht) [mm]	1450	1610		
Protective height (Hs) [mm]	1450	1610		
Number of beams	72	80		
Current consumption [mA]	68	71		
Response time [ms]	26	29		

PART REFERENCE (BOLD: PREFERRED TYPES)

PNP / Connector M12	Sender	YBBS-30S2-1450-P012	YBBS-30S2-1610-P012		
	Receiver	YBBS-30R2-1450-P012	YBBS-30R2-1610-P012		
	Kit (sender + receiver)	YBBS-30K2-1450-P012	YBBS-30K2-1610-P012		