

BARRIERS BASIC

ACCESS CONTROL TYPE 4

MAIN FEATURES

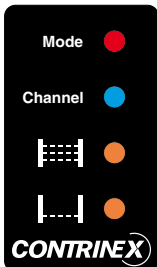
- ✓ Beam gap: 300, 400 or 500 mm (3 to 6 beams)
- ✓ Operating range: 1 ... 15 m or 10 ... 50 m (can be configured)
- ✓ Protective height: 832 ... 1532 mm
- ✓ Category 4, PL e according to EN/ISO 13849-1
- ✓ Type 4 according to IEC 61496-1 and -2
- ✓ Certified TÜV, CE and UL
- ✓ IP 65, IP 67 with operating temperatures as low as -35°C (-31°F)
- ✓ Housing profile 42 mm x 48 mm
- ✓ 2-channel selection
- ✓ Optical synchronization
- ✓ Permanent autocontrol



ACCESS CONTROL

LEDS

LED indicators on the YCA **sender** unit



Mode:

Off when max. operating range 15 m
Blue when max. operating range 50 m
Red or purple in case of wiring error

Channel:

Blue when channel 1 selected
Purple when channel 2 selected

Alignment (full):

Steady orange when screen not fully aligned
Blinking orange when first third of screen aligned
Off when screen is fully aligned

Alignment (low beam):

Steady orange when lowest beam not aligned
Blinking orange when lowest beam aligned
Off when screen fully aligned

LED indicators on the YCA **receiver** unit



Power:

Green when power ON

Channel:

Blue when channel 1 selected
Purple when channel 2 selected

Status ON:

Green when OSSD outputs ON

Status OFF:

Red when OSSD outputs OFF

TECHNICAL DATA

Dimensions	42 mm x 48 mm x Ht
Beam gap	300, 400 or 500 mm (3 to 6 beams)
Protective height	832 ... 1532 mm
Supply voltage range	24 VDC \pm 15%
Current consumption sender	35 mA max. / 1.0 W max.
Current consumption receiver (excl. load)	75 mA max. / 2.2 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	1 ... 15 m / 10 ... 50 m (can be configured)
Sender wavelength	IR 850 nm

HOUSING

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

CONFIGURATION OF OPERATING RANGE

Depending on wiring, the maximum operating range can be fixed to either 50 m or 15 m.

ELECTRONIC PROTECTION

Safetinex access control barriers are self-protected against overloads and short-circuits. They can also withstand short high-voltage overloads.

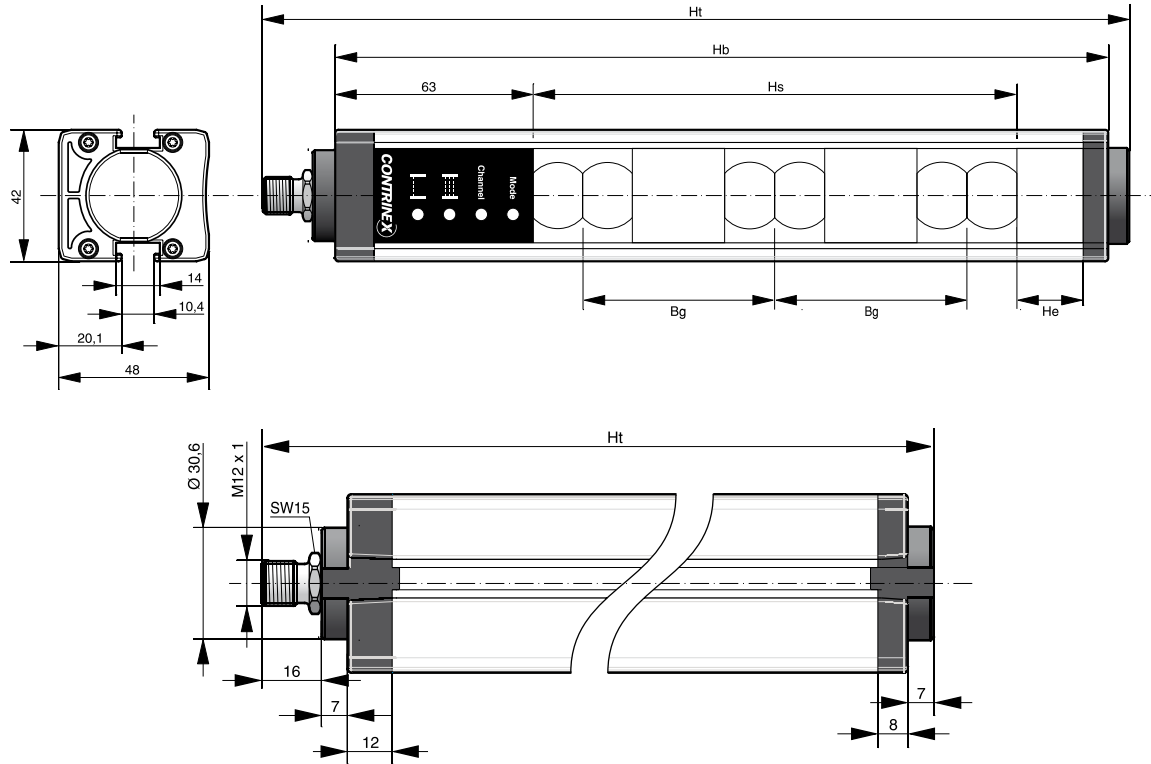
CONNECTION

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

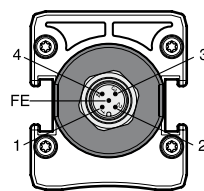
DOCUMENTATION

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
Operating range selection	24 V: operating range 10 ... 50 m 0 V: operating range 1 ... 15 m	4	black	-	-
Operating range selection	0 V: operating range 10 ... 50 m 24 V: operating range 1 ... 15 m	2	white	-	-
Output	OSSD1	-	-	2	white
Output	OSSD2	-	-	4	black
Functional earth	Shield	FE	gray	FE	gray



ACCESS CONTROL



TYPE-SPECIFIC DATA

	4	5	6
Number of beams	4	5	6
Beam gap (Bg) [mm]	300	300	300
Total height (Ht) [mm]	1154	1412	1670
Housing height (Hb) [mm]	1124	1382	1640
Protective height (Hs) [mm]	932	1232	1532
Height extension (He) [mm]	121	79	37
Current consumption [mA]	110	110	110
Response time [ms]	5.0	5.9	6.7

PART REFERENCE (BOLD: PREFERRED TYPES)

PNP / Connector M12	Sender	Receiver	Kit (sender + receiver)
	YCA-50S4-4300-G012	YCA-50R4-4300-G012	YCA-50K4-4300-G012
	YCA-50S4-5300-G012	YCA-50R4-5300-G012	YCA-50K4-5300-G012
	YCA-50S4-6300-G012	YCA-50R4-6300-G012	YCA-50K4-6300-G012

TYPE-SPECIFIC DATA

	3	4	3
Number of beams	3	4	3
Beam gap (Bg) [mm]	400	400	500
Total height (Ht) [mm]	1025	1412	1154
Housing height (Hb) [mm]	995	1382	1124
Protective height (Hs) [mm]	832	1232	1032
Height extension (He) [mm]	92	79	21
Current consumption [mA]	110	110	110
Response time [ms]	4.2	5.0	4.2

PART REFERENCE (BOLD: PREFERRED TYPES)

PNP / Connector M12	Sender	Receiver	Kit (sender + receiver)
	YCA-50S4-3400-G012	YCA-50R4-3400-G012	YCA-50K4-3400-G012
	YCA-50S4-4400-G012	YCA-50R4-4400-G012	YCA-50K4-4400-G012
	YCA-50S4-3500-G012	YCA-50R4-3500-G012	YCA-50K4-3500-G012



