

Safety detection solutions

Safety light curtains, type 4

XUSL range

Standard sensing distance



XUSL4E14F016N

XUSL4E14F031N

Transmitter-receiver pairs for finger detection (1) (2)

Resolution 14 mm. Sensing distance 0...3 or 1...6 m, selectable by wiring

- 2 PNP outputs
- Operating temperature range: -20 °C...+55 °C
- TM (mission time): 20 years

Protected height	Total height	Number of light beams	Response time (t1)	PFH _D IEC 61508	Reference	Weight
mm	mm		ms			kg
160	213	15	4	1.03 x 10 ⁻⁸	XUSL4E14F016N	0.400
310	363	30	5.5	1.27 x 10 ⁻⁸	XUSL4E14F031N	0.700
460	513	45	7.5	1.52 x 10 ⁻⁸	XUSL4E14F046N	1.000
610	663	60	9	1.75 x 10 ⁻⁸	XUSL4E14F061N	1.200
760	813	75	11	2.00 x 10 ⁻⁸	XUSL4E14F076N	1.500
910	963	90	13	2.24 x 10 ⁻⁸	XUSL4E14F091N	1.700
1,060	1,113	105	14.5	2.49 x 10 ⁻⁸	XUSL4E14F106N	2.000
1,210	1,263	120	16.5	2.73 x 10 ⁻⁸	XUSL4E14F121N	2.300
1,360	1,413	135	18	2.98 x 10 ⁻⁸	XUSL4E14F136N	2.500
1,510	1,563	150	20	3.22 x 10 ⁻⁸	XUSL4E14F151N	2.800
1,660	1,713	165	22	3.48 x 10 ⁻⁸	XUSL4E14F166N	3.000
1,810	1,863	180	23.5	3.71 x 10 ⁻⁸	XUSL4E14F181N	3.300

Transmitter-receiver pairs for hand detection (1) (2)

Resolution 30 mm. Sensing distance 0...4 or 0...12 m, selectable by wiring

- 2 PNP outputs
- Operating temperature range: -30 °C...+55 °C
- TM (mission time): 20 years

Protected height	Total height	Number of light beams	Response time (t1)	PFH _D IEC 61508	Reference	Weight
mm	mm		ms			kg
160	213	8	4	7.08 x 10 ⁻⁹	XUSL4E30H016N	0.400
260	313	13	5	8.06 x 10 ⁻⁹	XUSL4E30H026N	0.600
310	363	16	5.5	8.20 x 10 ⁻⁹	XUSL4E30H031N	0.700
460	513	23	7.5	9.47 x 10 ⁻⁹	XUSL4E30H046N	1.000
610	663	31	9	1.06 x 10 ⁻⁸	XUSL4E30H061N	1.200
760	813	38	10.5	1.19 x 10 ⁻⁸	XUSL4E30H076N	1.500
910	963	46	12.5	1.30 x 10 ⁻⁸	XUSL4E30H091N	1.700
1,060	1,113	53	14	1.43 x 10 ⁻⁸	XUSL4E30H106N	2.000
1,210	1,263	61	15.5	1.54 x 10 ⁻⁸	XUSL4E30H121N	2.300
1,360	1,413	68	17	1.67 x 10 ⁻⁸	XUSL4E30H136N	2.500
1,510	1,563	76	19	1.78 x 10 ⁻⁸	XUSL4E30H151N	2.800
1,660	1,713	83	20.5	1.90 x 10 ⁻⁸	XUSL4E30H166N	3.000
1,810	1,863	91	22	2.02 x 10 ⁻⁸	XUSL4E30H181N	3.300



XUSL4E30H016N

XUSL4E30H031N

Transmitter-receiver pairs for body detection (1) (2)

2, 3, or 4 beams. Sensing distance 0...4 or 0...12 m, selectable by wiring

- 2 PNP outputs
- Operating temperature range: -30 °C...+55 °C
- TM (mission time): 20 years

Protected height	Total height	Light beams Number/spacing	Response time (t1)	PFH _D IEC 61508	Reference	Weight
mm	mm		ms			kg
510	677	2 / 500 mm	2.5	6.89 x 10 ⁻⁹	XUSL4E2BB051N	1.100
810	977	3 / 400 mm	3	7.55 x 10 ⁻⁹	XUSL4E3BB081N	1.600
910	1,077	4 / 300 mm	3	8.21 x 10 ⁻⁹	XUSL4E4BB091N	1.700

(1) The safety light curtains are supplied with mounting brackets and screws.

(2) Connection cables and test rods must be ordered separately (see pages 24 and 25).