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ENGLISH

Short guide

UniScan / US beam

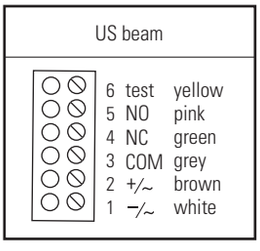
Installation and adjustment

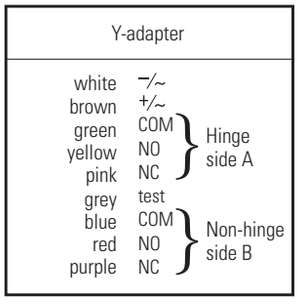
1. Fit housing (see operating instructions, chapter 2).
2. Click US beams into aluminium profiles.
3. Check whether the US beams are clicked in correctly and therefore secured well in the profile!
3. Position US beams and set inclination angle
   → The left and right bearing clamps must be at the same angle (see operating instructions, chapter 2.4).
4. If several sensors are used, connect these with the ribbon cable
5. Click cover onto profile (working from front to back) and ensure that the US beam's inclination angle doesn't change!



This information sheet does not replace the original operating instructions!
Read the operating instructions before commissioning the device!

Electrical connections





If AC voltage is supplied, only single sensor operation is possible and it is not allowed to cascade the sensors by ribbon cable.

When the UniScan is used as a safety sensor, the testing must be connected correctly!

Initialisation (see operating instructions, chapter 2.5)

a) Initialisation is started by pressing the keys **F + 3 + 6** on the RegloBeam 2 remote control or by pressing the green key for 5 seconds!
b) If both LEDs (red/green) flash, this indicates that the function has been triggered. The detection area must be exited within 6 seconds.
c) If the red LED then flashes, this indicates that initialisation is under way. The detection area must not be entered during this time!
d) Initialisation is complete when both LEDs go out.

RegloBeam 2 remote control

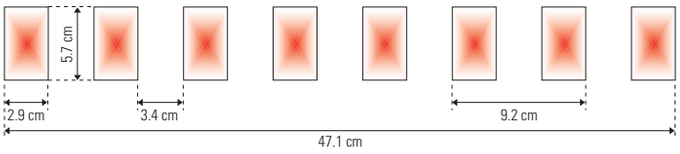
General:
If **G** flashes, a connection to the sensor could not be established.
→ Disconnect the power supply of the UniScan briefly or press briefly one of the two buttons on the sensor.
→ Direct the RegloBeam 2 remote control more exactly and directly at the sensor.
30 minutes after the last setting was undertaken on the sensor, configuration mode is automatically exited.

Settings with RegloBeam 2

Key	Function	Key	Brief description of function
A	Test input	1, 2, 3, 4 **5***	① «High» active, pull up ② «High» active, pull down ③ «Low» active, pull up ④ «Low» active, pull down ⑤*** Test input deactivated**
B	Switch light points on and off Note: Once one or more beams have been switched on and off, re-initialise using F+3+5	1+ 1 or 2 2+ 1 or 2 3+ 1 or 2 4+ 1 or 2 5+ 1 or 2 6+ 1 or 2 7+ 1 or 2 8+ 1 or 2 9	Beam 1 selected, activate with key 1, deactivate with key 2 Beam 2 selected, activate with key 1, deactivate with key 2 Beam 3 selected, activate with key 1, deactivate with key 2 Beam 4 selected, activate with key 1, deactivate with key 2 Beam 5 selected, activate with key 1, deactivate with key 2 Beam 6 selected, activate with key 1, deactivate with key 2 Beam 7 selected, activate with key 1, deactivate with key 2 Beam 8 selected, activate with key 1, deactivate with key 2 All beams on **Factory setting: Energy-saving beam pattern 1-3-5-7-8 on**
C	Output signal	1, **2***, 7	① The relay picks up when a detection takes place (active) ②*** The relay drops out when a detection takes place (passive)** ⑦ Restart
D	Sensitivity	1, 2, 3* 4, **5***, 6, 7	① Object height > 10 cm ② Object height > 15 cm if sensor mounting height is up to 3 m ③ Object height > 20 cm ④ Object height > 30 cm ⑤*** Object height > 40 cm** ⑥ Object height > 50 cm ⑦ Object height > 70 cm
E	Relay hold interval	1, 2, 3, **4***, 5, 6 7, 8	① 0 ms ② 50 ms ③ 200 ms ④*** 500 ms** ⑤ 1 s ⑥ 3 s ⑦ 6 s ⑧ 10 s (ms=milliseconds, s=seconds)
F + 1	Device address	1–7	Address of between 1 and 7 can be selected, **factory setting is 3**
F + 2	Composition of the floor	1, **2***, 3	① Standard floor ②*** Dark or reflective floor** ③ Metal grating
F + 8	Enhanced levels	1, **2***	① Standard mode ②*** Power saving mode**

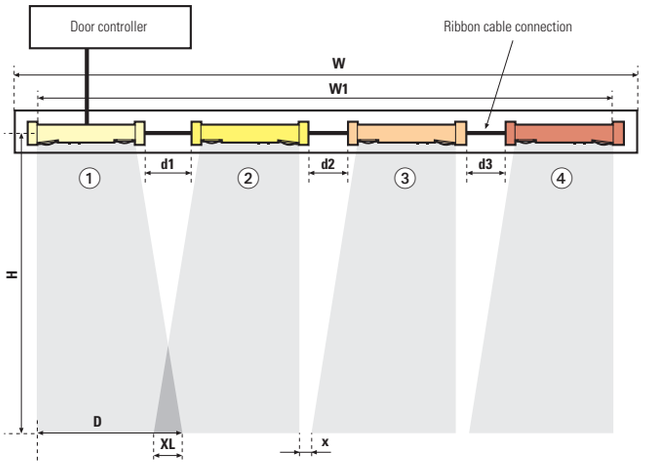
***Factory setting**

Area properties



The dimensions of the detection area correspond to a mounting height of 2.2 m

Positioning



Based on sensitivity 3 (20 cm Object height)

H = Mounting height (cm)
W = Profile and door width (cm)
W1 = Monitored area, total area width (cm)
XL = Area overlap (cm)
x = Maximum permitted spacing (cm) so that standard test body CA (DIN 18650:2005) is still detected.
n = Number of sensors (US beam) per door panel
P = Points sensor (1) (US beam) to be deactivated
D = Detection width (cm) per sensor (US beam)
d1, d2, d3 = Distance (cm) between sensors (US beam)

Safety according EN16005.

Mounting height H (cm)	Detection width D (cm)
170	36
180	39
190	41
200	43
210	45
220	47
230	49
240	51
250	53
260	56
270	58
280	60
290	62
300	64

Width to be equipped with sensor(s) according to EN16005 at mounting height of 200 cm

Tür-breite (cm)	Opening time from 0 to 80 grad or closing time from 90 to 10 grad								
	1,2 s	1,7 s	2,3 s	3,0 s	3,6 s	4,2 s	4,8 s	5,5 s	6,1 s
70	51	43	33	22	12	3		Low energy aera (no sensor zone)	
80	61	53	43	32	22	13	3		
90	71	63	53	42	32	23	13	2	
100	81	73	63	52	42	33	23	12	2
110	91	83	73	62	52	43	33	22	12
120	101	93	83	72	62	53	43	32	22
130	111	103	93	82	72	63	53	42	32
140	121	113	103	92	82	73	63	52	42
150	131	123	113	102	92	83	73	62	52
160	141	133	123	112	102	93	83	72	62

Uniscan 1: with 1 sensor (US beam)
Uniscan 2: with 2 sensors (US beam). Max 10 cm betweeen sensing zones (x)
Uniscan 3: with 3 sensors (US beam). Max 10 cm betweeen sensing zones (x)

Safety according DIN 18650.

W		70						80						90						100						110					
W1		57						67						77						87						97					
H	D	n	XL	P	d1	d2	d3	n	XL	P	d1	d2	d3	n	XL	P	d1	d2	d3	n	XL	P	d1	d2	d3	n	XL	P	d1	d2	d3
170	36	2	–16	3	2	–	–	2	–6	0	12	–	–	2	4	0	22	–	–	3	–16	2	1	1	–	3	–12	2	5	7	–
180	39	2	–20	3	2	–	–	2	–10	1	12	–	–	2	0	0	22	–	–	2	10	0	32	–	–	3	–19	3	3	9	–
190	41	2	–24	4	2	–	–	2	–14	2	12	–	–	2	–4	0	22	–	–	2	6	0	32	–	–	3	–24	4	2	10	–
200	43	2	–29	4	2	–	–	2	–19	3	12	–	–	2	–9	1	22	–	–	2	1	0	32	–	–	3	–28	5	2	10	–
210	45	2	–33	5	2	–	–	2	–23	3	12	–	–	2	–13	1	22	–	–	2	–3	0	32	–	–	2	7	0	42	–	–
220	47	2	–37	5	2	–	–	2	–27	4	12	–	–	2	–17	2	22	–	–	2	–7	0	32	–	–	2	3	0	42	–	–
230	49	2	–41	6	2	–	–	2	–31	4	12	–	–	2	–21	3	22	–	–	2	–11	1	32	–	–	2	1	0	42	–	–
240	51	2	–46	6	2	–	–	2	–36	5	12	–	–	2	–26	3	22	–	–	2	–16	2	32	–	–	2	6	0	42	–	–
250	53	2	–50	7	2	–	–	2	–40	5	12	–	–	2	–30	4	22	–	–	2	–20	2	32	–	–	2	10	1	42	–	–
260	56	2	–54	7	2	–	–	2	–44	6	12	–	–	2	–34	4	22	–	–	2	–24	3	32	–	–	2	14	1	42	–	–
270	58	1	–1	0	–	–	–	2	–49	6	12	–	–	2	–39	4	22	–	–	2	–29	3	32	–	–	2	19	2	42	–	–
280	60	1	–3	0	–	–	–	2	–53	6	12	–	–	2	–43	5	22	–	–	2	–33	3	32	–	–	2	23	2	42	–	–
290	62	1	–5	0	–	–	–	2	–57	7	12	–	–	2	–47	5	22	–	–	2	–37	4	32	–	–	2	27	3	42	–	–
300	64	1	–7	0	–	–	–	2	–61	7	12	–	–	2	–51	6	22	–	–	2	–41	4	32	–	–	2	31	3	42	–	–

W		120						130						140						150						160					
W1		107						117						127						137						147					
H	D	n	XL	P	d1	d2	d3	n	XL	P	d1	d2	d3	n	XL	P	d1	d2	d3	n	XL	P	d1	d2	d3	n	XL	P	d1	d2	d3
170	36	3	–12	2	5	17	–	3	–2	0	15	17	–	3	8	0	25	17	–	4	–16	3	2	4	17	4	–9	1	9	7	17
180	39	3	–19	3	3	19	–	3	–9	1	13	19	–	3	1	0	23	19	–	4	–20	3	20	2	19	4	–17	3	5	9	19
190	41	3	–25	4	1	21	–	3	–15	2	11	21	–	3	–5	0	21	21	–	3	5	0	31	21	–	4	–25	4	2	10	21
200	43	3	–21	3	9	13	–	3	–21	3	9	23	–	3	–11	1	19	23	–	3	–1	0	29	23	–	3	9	0	39	23	–
210	45	3	–27	4	7	15	–	3	–27	4	7	25	–	3	–17	2	17	25	–	3	–7	0	27	25	–	3	3	0	37	25	–
220	47	3	–34	5	5	17	–	3	–34	5	5	27	–	3	–24	3	15	27	–	3	–14	1	25	27	–	3	–4	0	35	27	–
230	49	2	9	0	52	–	–	3	–40	6	3	29	–	3	–30	4	13	29	–	3	–20	2	23	29	–	3	–10	1	33	29	–
240	51	2	4	0	52	–	–	3	–46	6	2	30	–	3	–36	5	12	30	–	3	–26	3	22	30	–	3	–16	2	32	30	–
250	53	2	0	0	52	–	–	3	–43	6	9	23	–	3	–42	6	10	32	–	3	–32	4	20	32	–	3	–22	2	30	32	–
260	56	2	–4	0	52	–	–	2	6	0	62	–	–	3	–49	6	8	34	–	3	–39	5	18	34	–	3	–29	3	28	34	–
270	58	2	–9	0	52	–	–	2	1	0	62	–	–	3	–55	7	6	36	–	3	–45	5	16	36	–	3	–35	4	26	36	–
280	60	2	–13	1	52	–	–	2	–3	0	62	–	–	2	7	0	72	–	–	3	–51	6	14	38	–	3	–41	5	24	38	–
290	62	2	–17	1	52	–	–	2	–7	0	62	–	–	2	3	0	72	–	–	3	–57	7	12	40	–	3	–47	5	22	40	–
300	64	2	–21	2	52	–	–	2	–11	0	62	–	–	2	–1	0	72	–	–	3	–64	7	10	42	–	3	–54	6	20	42	–