263146F

Intra6 2, Intra6 2.LVAC Please keep for future reference!

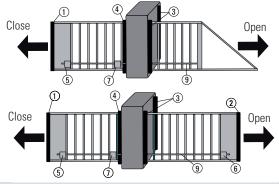
Translation of the original instructions

Switching device with inductive transmission system used in combination with safety edges to avoid dangers at crushing and shearing points in sliding gate systems.

Safety and warning notices

→ The electrical connection may only be set up by an electrician. → The arrangement of the components depends on the structural conditions and the gate design. → Switch off the operating voltage before working on the system. → The switching device monitors pressure-sensitive protective devices from Bircher Reglomat AG (proper use). → Use of components not supplied by Bircher-Reglomat (including safety edges) will render the guarantee and liability null and void. \rightarrow Connect all operating and switching voltages to the same fuse. \rightarrow Connect the operating voltage to the same circuit as the industrial door controller. → Disconnect device from mains in the event of a fault. → Protection max. 10 A

System components



- (1) Mobile safety edge CLOSE (primary closing edge)
- (2) Mobile safety edge OPEN
- (3) Stationary safety edge CLOSE
- (4) Stationary safety edge OPEN
- (5) INTR-MOB61, converter for safety edge (1)
- (6) INTR-MOB62, converter for mobi safety edge (2)
- (7) INTR-FIX60, coil
- (8) Intra6 2, switching device
- (9) Steel cable (see chapter 8.3)



Electrical connection and terminal diagram

Version	Operating voltage	Stationary safety edge CLOSE ③	Stationary safety edge OPEN 4	Test input	Coil connection 7	Output CLOSE	Output OPEN
InTra6 2 InTra6 2.LVAC	+/~0 \\/~0 \\ \ A1 \\ A2	1 2	100 3 100 4	T2 + 0 T1	YE — 0 S	14-0\left\(\) 11-0\left\(\)	24-0\left\(\text{21-0} \right\)

3 Operation

on device:

«Mode» button

Control buttons

Data

«Data» button

Display CLOSE Output OPEN Output 8.8.8 Data

Active test input

- H - = Symbol for display flashes

4 Standard operation

When everything is connected correctly:

Display after switching on: Status LED lights up green



Displays shown when safety edge is actuated: Status LED lights up orange

(1) actuated: Po

2 actuated: P 2

(3) actuated: 📮 🛈

(4) actuated:



5 Diagnostic menu

Press the «Mode» and «Data» buttons simultaneously for 2 s → status LED flashes orange. Press «Mode» buttons briefly to change to the next mode. Press the «Mode» button for 2 s to exit diagnostic menu.

Error display mode

The 5 most recent errors | | can be interrogated. Press the «Data» key briefly in each case, and the errors are displayed one after the other. End appears when the «Data» button is pressed for the 5th time. The malfunctions are displayed in chronological order (new → old)

Mode «r» Resistance

The resistances of the B safety edges are displayed. Example:

-8 = Resistance between 7 and 9 kohm. -----1 = safety edge (1)

To access the next safety edge: Press the «Data» button

Mode «S» Output CLOSE

CLOSE Output: Press the | «Data» button

The CLOSE Output is P 🛮 deactivated

50 Press the «Data» button again

> The CLOSE Output is activated

Mode «S» Output OPEN

^② OPEN Output: Press the «Data» button

5 The OPEN Output is deactivated 0

5 2 Press the «Data» button again

The OPEN Output is activated

Mode «S» Simulation test

Both outputs: Press the "Data" button P Both outputs are

deactivated

P O Press the "Data" button again 500 Both outputs are activated

Mode «I» Test input

Display when IAE test input inactive

| 00 Display when R[test input active

Mode «C» current configuration

Displays current configuration of safety edge inputs, see configuration table.

Mode «c» current configuration test signal

Displays current configuration, 00 1 test signal, see test pulse table.

Configuration → chapter 6 Configuration → chapter 6

Mode «e» current fall-delay time

Displays current fall-delay time, 002 see fall-delay time table.

Configuration → chapter 6

To access the config. mode: Proess the «Mode» button

6 Configuration mode (for configuration before starting up, via diagnostic menu, after mode «h»)

^P

Please read chapters 6.1 to 6.4 in full before attempting configuration.

6.1 Activating configuration menu



Status LED flashes orange, press «Data» button



Press the «Mode» and «Data» buttons simultaneously for 2 s.

Configuration menu is activated.

Configuration menu can be **exited** at any time by pressing the «Mode» button (2 s).

- «End» is displayed → Press «Data» button and release
- → Restart undertaken with new configuration.

6.2 Configuration of safety edge inputs



The current setting for the safety edge inputs is displayed.



Use the «Data» button to set the **configuration** you want for the safety edge inputs (according to Table 1).



Error messages may occur when restarting after configuration if the inputs do not match the configuration.

Display	Mobile safety edge CLOSE 1	Mobile safety edge OPEN 2	Stationary safety edge CLOSE 3	Stationary safety edge OPEN 4
unc		not c	onfigured	
001*	Х		X	X
002	Х	X	X	Х
003			X	X
004	Х	Х		
005	Х			
006	X	X	X	
007	X	X		X
008	X		X	
009	X			X
010			X	
011				X

Table

6.3 Configuration Test input



Press the «Mode» button briefly. Use the «Data» button to set the required test signal (according to Table 2).

ing to Tab	le 2).		setting
	Display	Test pulse	
	001	JL	Factory
Table 2	002*	7	*) F

6.4 Configuration fall-delay time



Press the «Mode» button briefly. Use the «Data» button to set the required fall-delay time (according to Table 3).

 Display
 Fall-delay time

 aa1
 none

 aa2
 100 ms

 aa3*
 200 ms

 aa4
 500 ms

 aa5
 1000 ms

Then briefly press the «Mode» button and End appears.

- → The system is configured.
- → Press «Data» button to restart.

Table 3

7 Error displays



If an error is detected then the outputs are deactivated and symbols (1) & (2) and an error code are displayed. The status LED lights up red.

D	Display	E001	E002	E003	E004	E005	E006	E101/ E102
E	rror	Safety edge (SE) malfunction ①	SE mal- function ①	SE mal- function 1	SE mal- function ①	Cable circuit mal- function	Mounting ≠config. mode	Undervoltage/ overvoltage
R	emedy	Check safety edge 1	Check SE 2	Check SE ③	Check SE 4	Check cable circuit < 3 ohm	Check configuration	Check supply

Should other fault messages appear, please contact your supplier.

8 Most important technical data

	InTra6 2	24 V AC/DC ± 15%,	
Operating voltage	InTra6 2.LVAC	100-240 V AC 50/60 Hz	
Power consumption	max. 3 VA		
Safety edges	8,2 k0hm		

Outputs	Semiconductor relay, 24 V AC/DC, max. 50 mA
Test input	24 V AC/DC, 2 mA Not activated = Standard operation, activated = Test
Dimensions (W x H x D)	Switching device (8) 22,5x94x88 mm Coil (7): 50x25x22 mm Converter (5)(6): 40x25x22 mm

9 Mounting

9.1 Electrical installation

- 1. Check that electrical components are all present by referring to component list 9.3.
- 2. Mount switching device in designated position.
- 3. Mounting of mechanical parts (see chapters 9.2 and 9.3).
- 4. Connect electrical lines as shown in terminal diagram in chapter 2.

9.2 Mechanical mounting

- 1. Check that mechanical components are all present by referring to component list 9.3
- 2. Mount the two mounting brackets (10) and the coil (7).
- 3. Pull in the steel cable (see chapter 9.4 and 9.5). Mount converter INTR-MOB (5) or (6)
- 4. Tension the steel cable ③ cable and fix it via the retaining screw ⑨. The steel cable ⑨ must be able to move unimpeded through the INTR-FIX60 coil ⑦ along the full length of the gate.
- 5. Connect steel cable

 as described in chapter 9.5. Make sure the connection with the gate offers low resistance (clean the contact points and remove any paint).
- 6. Establish the electrical connection as shown in the terminal diagram in chapter 2.

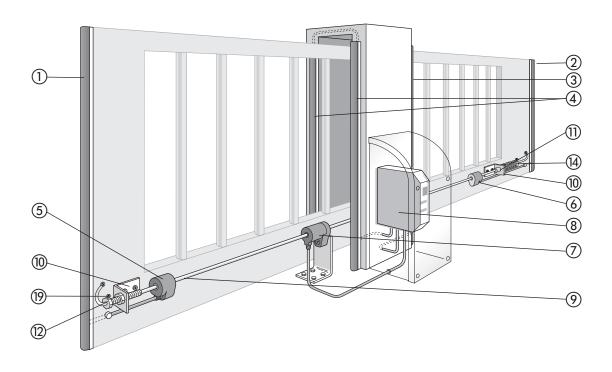
9.3 List of electrical components

Components	Image	Qty	No.	Function	
INTR-MOB61 (grey)		1	(5)	Converter, mobile sensor unit, transmits sensor status of primary closing edge	
INTR-MOB62 (red)		evt. 1	6	Converter, mobile sensor unit, transmits sensor status of mobile secondary closing edge	
INTRA6 2 switching device		1	8	Evaluation and switching device	
INTR-FIX	-	1	7	Coil, transmits energy and information	
Steel cable	0	1	9	Steel cable, forms the low-resistance cable circuit together with the gate structure (< 3 ohm!)	
INTR-ASK60 components	INTR-ASK60 components				
Mounting bracket	.11	2	10	For fastening the cable to the gate	
Banjo bolt, smooth, 8x60 with steel cable fixing screw (M4x10)		1	11)	Part of cable tensioning device	
Banjo bolt		1	12	Part of cable tensioning device	
Cable lug 2.5 mm2	0	2	13	For connecting steel cable to gate	
Compression spring	ODDO)	1	14)	Part of cable tensioning device	
Hexagon bolt M6x12 including washer		6	15)	For fastening bracket / cable to gate	
Hexagon nut M6	6	2	16	Part of cable tensioning device (on banjo bolt)	
Plastic sleeve	0	2	17)	For insulation between banjo bolt / hollow pin and mounting bracket	
U-shaped washer for M8	0	2	18)	Part of cable tensioning device (on banjo bolt)	

9.4 Arrangement on a gate (example)

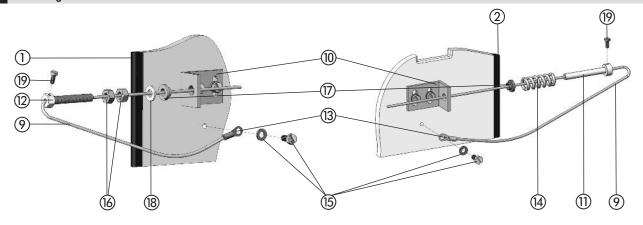
Screw M4 x 10

2

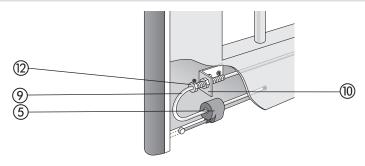


(19) For fixing the cable in the banjo bolt / hollow pin

9.5 Mounting steel cable



9.6 Mounting substructure



10 EC Declaration of conformity, date of production

10.1 EC Declaration of conformity

Manufacturer: Bircher Reglomat AG, Wiesengasse 20, CH-8222 Beringen

Employee responsible for documentation: Bircher Reglomat GmbH, Dr. Marc Loschonsky, Robert-Bosch-Strasse 3, DE-71088 Holzgerlingen

Product: Inductive signal transmission system, safety switching device

Models: InTra6 2, InTra6 3

Notified Body: Suva, Bereich Technik, SCESp 008, Kenn-Nr. 1246

Txpe-examination certificate: E 6934, E 6935

Fulfills the essential requirements in acc. with: 2006/42/EG, 1999/5/EG
Following standards were applied: EN ISO 13849-1:2008+AC:2009

Signee: CTO Dr. Marc Loschonsky, COO Daniel Nef

10.2 Date of production

See shield → week/year, e.g. 12/10 = week 12, 2010

11 Contact data

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