



## InTra6

Inductive signal transmission system for safety edges on automatic sliding gates

### Simple, intelligent, low-maintenance

- Easy installation and short start-up time
- Can be configured for a wide range of applications
- Unobtrusively mountable system due to compact and easy-to-integrate components
- Long service life, low operating costs because of wear-resistant signal transmission

# InTra6

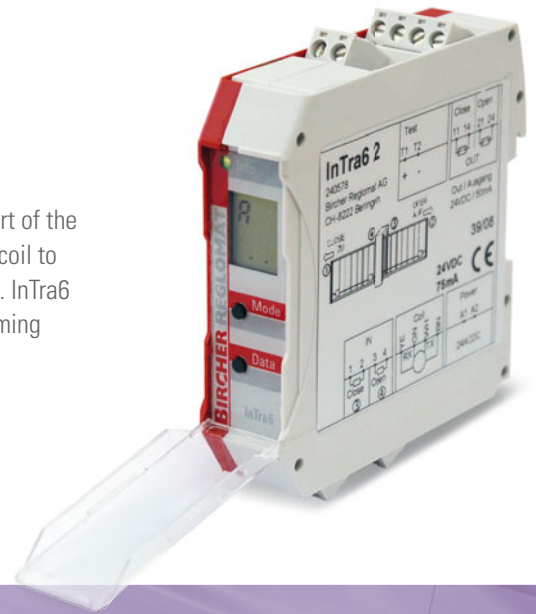
## Inductive signal transmission system for automatic sliding gates

### Systematic safety

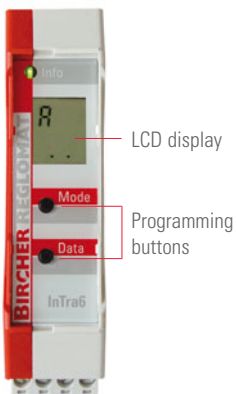
InTra6 transmits the status of the pressure-sensitive safety edges mounted on the mobile part of the gate securely and contact-free. Information is transferred by converter and steel cable via a coil to the switching device. Stationary safety edges are connected directly to the switching device. InTra6 is a further development of our inductive signal transmission systems that have been performing reliably for many years.

### InTra6 – It couldn't be easier

Due to its intelligent software with intuitive user guidance and the compact design, InTra6 can be operated and started up easily.

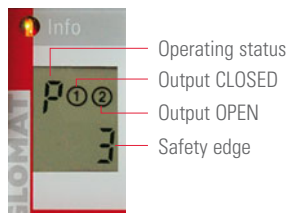


## Your benefits



### User-friendly and clear

The operating status and set values can be read at a glance from the clear LCD display.



### Rapid startup

The configuration programmed at the factory corresponds to a large proportion of the applications. InTra6 is operated using two buttons.

### Individually configurable

An ingenious set-up permits a safe and reliable configuration. The very flexible system can easily be adjusted for the individual situation. There are no longer any bridging resistors.

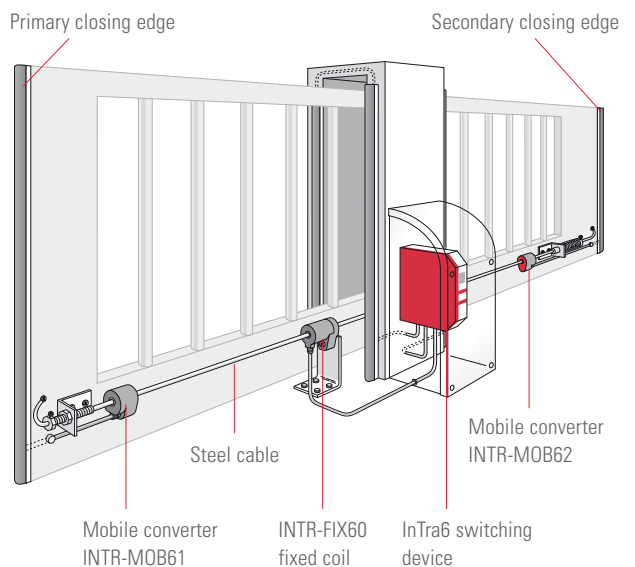
### Integrated resistance display

The resistance values of the connected safety edges are displayed if necessary, making additional measuring instruments superfluous.

### Clear at first glance

The LED display immediately shows when a safety edge has been actuated. The LCD display also shows which safety edge and which output are affected.

## System overview



### Simple and compact

- No complicated cabling along the entire gate spar necessary! Simply use a second converter for the secondary closing edge.
- High level of flexibility in gate design thanks to the small, densely packed system components.
- Using only one system, it is possible to monitor up to four safety edge circuits safely and reliably.

## System components

Use the INTR-MOB61 converter at the primary closing edge and the INTR-MOB62 converter on a mobile secondary closing edge. Connect both to the safety edges directly. The INTR-FIX60 coil is used for signal transmission between the cable and the switching unit.



**INTR-MOB61**  
Primary closing edge converter



**INTR-MOB62**  
Secondary closing edge converter



**INTR-FIX60**  
Fixed coil for signal transmission



The coil can be rotated about the cable axis to facilitate installation



## Applications

### Situation

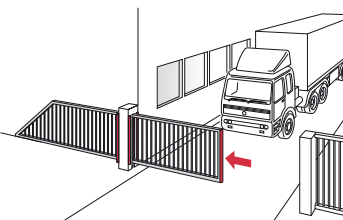
Use on sliding gate at site entrance, non-hazardous opening, only works traffic

### Solution

- InTra6 2 configured for primary closing edge and two stationary secondary closing edges with INTR-FIX60 coil and INTR-MOB61 converter

### Advantages

- A PLd, Cat. 2 / EN ISO 13849-1 transmission system approved acc. to EN 12978 with safe evaluation of all three safety edge circuits



### Situation

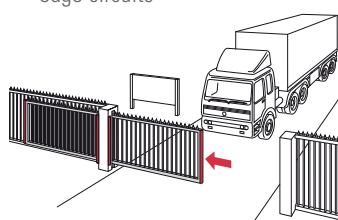
Use on sliding gate at site entrance, unprotected opening, only works traffic

### Solution

- InTra6 2 configured for mobile primary and secondary closing edge as well as two stationary secondary closing edges with INTR-FIX60 coil and two converters, INTR-MOB61 and INTR-MOB62

### Advantages

- A PLd, Cat. 2 / EN ISO 13849-1 transmission system approved acc. to EN 12978 with safe evaluation of all four required safety edge circuits



### Situation

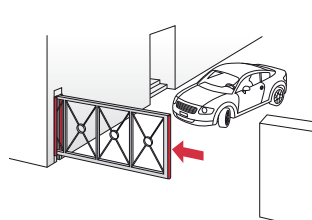
Use on sliding gate at site entrance, protected opening, only private traffic

### Solution

- InTra6 2 configured for a primary closing edge and a stationary secondary closing edge with INTR-FIX60 coil and INTR-MOB61 converter

### Advantages

- A PLd, Cat. 2 / EN ISO 13849-1 transmission system approved acc. to EN 12978 with safe evaluation of both required safety edge circuits



### Situation

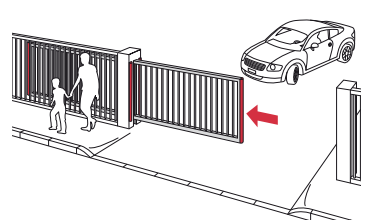
Use on sliding gate at site entrance, unprotected opening, adjacent to public premises

### Solution






- InTra6 3 configured for mobile primary and secondary closing edge as well as two stationary secondary closing edges with INTR-FIX60 coil and two converters, INTR-MOB61 and INTR-MOB62

### Advantages

- A PLe, Cat. 3 / EN ISO 13849-1 fail-safe (single fault) transmission system approved acc. to EN 12978 with evaluation of all four safety edge circuits



## Order details

Article no.	Description	
<b>240578</b>	InTra6 2 Inductive transmission system Switching device, PLd, Cat. 2, 24 V	
<b>244423</b>	InTra6 2.LVAC Inductive transmission system Switching device, PLd, Cat. 2, multi-voltage	
<b>263915</b>	InTra6 3 Inductive transmission system Switching device, PLe, Cat. 3, 24 V	
<b>263916</b>	InTra6 3.LVAC Inductive transmission system Switching device, PLe, Cat. 3, multi-voltage	
<b>240580</b>	INTR-FIX60 Coil to InTra6	
<b>240584</b>	INTR-MOB61 Converter to InTra6 Primary closing edge	
<b>240585</b>	INTR-MOB62 Converter to InTra6 Secondary closing edge	
<b>249588</b>	INTR-ASK60 Installation kit	
<b>256427</b>	INTR-SC12 Steel cable 12 m	

## InTra6 Kit

							
Art.no. Kit InTra6 2	240578	244423	240580	240584	240585	249588	256427
<b>256432</b> INTRAG 2 SET01	■		■	■		■	■
<b>256433</b> INTRAG 2 SET02	■		■	■	■	■	■
<b>256435</b> INTRAG 2 SET03		■	■	■		■	■
<b>256437</b> INTRAG 2 SET04		■	■	■	■	■	■
Art.no. Kit InTra6 3	263915	263916	240580	240584	240585	249588	256427
<b>264718</b> INTRAG 3 SET01	■		■	■		■	■
<b>264750</b> INTRAG 3 SET02	■		■	■	■	■	■
<b>264751</b> INTRAG 3 SET03		■	■	■		■	■
<b>264752</b> INTRAG 3 SET04		■	■	■	■	■	■

## Technical data

### Mechanical data

<b>Switching device</b>	For DIN rail mounting
<b>Material</b>	Polyamide red-grey
<b>Dimensions</b>	22.5 × 94 × 90 mm (W × H × D)
<b>Weight</b>	200 g
<b>Connection type</b>	Plug-in terminals
<b>Coil</b>	
<b>Material</b>	ABS/POM, anthracite
<b>Dimensions</b>	46 × 24 × 39 mm
<b>Cable length</b>	2 m
<b>Converter</b>	
<b>Material</b>	ABS, anthracite
<b>Dimensions</b>	32 × 24 × 34 mm
<b>Cable length</b>	0.2 m

### Electrical data

<b>Supply voltage</b>	InTra6 2: 24 VAC/DC ±15 % InTra6 2.LVAC: 100–240 VAC ±10 % InTra6 3: 24 VAC/DC ±15 % InTra6 3.LVAC: 100–240 VAC ±10 %
<b>Power consumption</b>	Max. 3 VA
<b>Duty cycle</b>	100 %
<b>Resistance values of the safety edges</b>	8.2 kOhm
<b>Outputs</b>	Semiconductor relay 24 VDC, 50 mA
<b>Test input</b> (only InTra6 2 / InTra6 2.LVAC)	24 VDC Not activated = Standard operation Activated = Test

### Ambient conditions

<b>Protection class</b>	
<b>Switching device</b>	IP30, in installed condition
<b>Converter, coil</b>	IP65
<b>Operating temperature</b>	–20 °C to +55 °C
<b>Storage temperature</b>	–40 °C to +70 °C
<b>Air humidity</b>	< 95 %, non-condensing

### Standards

<b>Approval</b>	EN 12978 EN ISO 13849-1
-----------------	----------------------------

### Note

Technical details and recommendations concerning our products are based on experience and are an aid for the orientation of the user. Details stated in our brochures and data sheets do not guarantee special properties of the products. This does not apply to special product properties confirmed in writing or individually on a case-by-case basis. Subject to technical alterations.

### BBC Bircher Smart Access

Wiesengasse 20  
8222 Beringen  
Switzerland  
Phone +41 52 687 11 11  
info@bircher.com  
www.bircher.com