

Smart Access

INTRA 50

Inductive signal transmission for sliding gates Safety category 3







INTRA 50

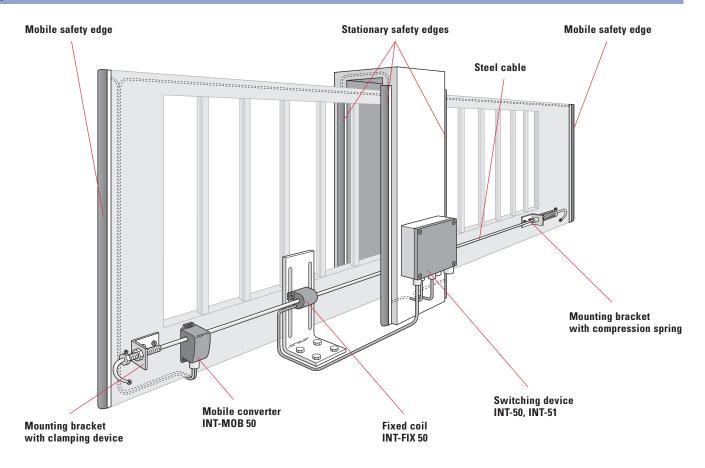
Description

INTRA 50 is an inductive transmission system, developed for automatic sliding gates. It provides safe monitoring of the safety edges, mounted on the moving part of the gate. The system works by inducing the signals in a steel cable by means of a converter and passing them via a coil to the switching device. Stationary safety edges are connected directly to the switching device. INTRA 50 solves wear and tear problems, commonly encountered with conventional cable solutions.

The new INTRA 50 meets the requirements of safety category 3 acc. to EN954-1.



System overview



Advantages for the customer

- \bullet Safety category 3. Can therefore be used for controlling access for the public
- Long service life and lower operating costs thanks to the wear-free signal transmission
- Absolutely safe: All safety edges of the gate can be monitored (primary and secondary closing edges)
- 7-segment display for simple functional and fault analysis. This saves time during periodical servicing and maintenance work
- High level of flexibility in gate design thanks to the small size of the coils
- "Concealed" installation is possible to reduce the risk of vandalism

Technical data

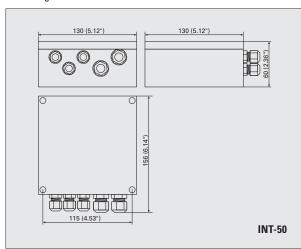
Mechanical data		
Switching device	INT-50	INT-51
- Housing	Grey ABS, transparent cover	-
- Dimensions	130 x 130 x 60 mm / 5.12" x 5.12" x 2.36"	148 x 120 x 58 mm / 5.83" x 4.72" x 2.28"
– Weight		
24 VACDC	455 g / 1.00 lb	330 g / 0.73 lb
230 VAC	710 g / 1.56 lb	600 g / 1.32 lb
Converter INT-MOB		
- Housing	ABS anthracite	
– Dimensions	94 x 45 x 48 mm / 3.70" x	1.77" x 1.89"
– Weight	150 g / 0.33 lb	
Coil INT-FIX		
- Housing	ABS anthracite	
- Dimensions	63 x 40 x 34 mm / 2.48" x 1.57" x 1.34"	
– Weight	165 g / 0.36 lb (incl. 3 m / 118.11" cable)	
– Cable length	3 m / 118.11"; max. 50 m / 164.04', min. cross-section 0,34 mm²/ AWG 22	

230 VAC +/-10%
24 VACDC +/-10%
50/60 Hz
10 VA at 230 VAC
7 VA at 24 VAC
4 W at 24 VDC
2 x 2 relays
250 VAC/2 A AC1
2 AT
Green LED
Yellow LED
Red LED
7-segment display

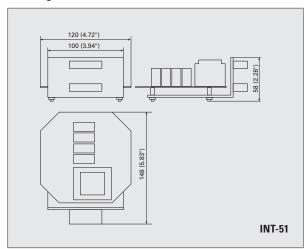
Ambient conditions	
- Protection class	IP65 (INT-51: IP00)
– Temperature range	
Operation	-10 °C to 55 °C / 14 °F to 131 °F (EN 1760-2)
(Operation guaranteed)	–20 °C to 55 °C / –4 °F to 131 °F
Storage	–20 °C to 80 °C / –4 °F to 176 °F
– Relative air humidity	max. 93% (no moisture condensation allowed)
	(according to EN1760-2 and IEC68-2-3)

Other data	
– Response time	typ. 10 ms
– Length of safety edges	max. 30 m / 98.425', incl. connection wire/sensor
– Length of steel cable	max. 20 m / 65.62'
– Cable resistance	max. 3 ohms (incl. contact points)
– Complies with	EN954-1 (safety category 3)
	EN12978 (with the corresponding safety edges)

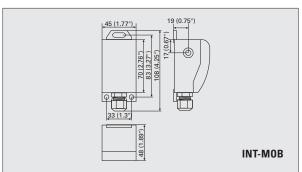
Switching device



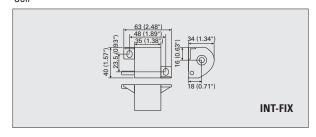
Switching device



Converter



Coil





Smart Access

Article no.	Description of INTRA 50 product range	
INT-SET50.24ACDC INT-SET50.230AC	Set with switching device in housing, 24 VACDC, coil, converter, cable and mounting set Set with switching device in housing, 230 VAC, coil, converter, cable and mounting set	1811
INT-SET50.K.24ACDC INT-SET50.K.230AC	Set with switching device in housing, 24 VACDC coil and converter Set with switching device in housing, 230 VAC coil and converter	
INT-SET51.24ACDC INT-SET51.230AC	Set with switching device (with DIN-rail mount), 24 VACDC, coil, converter, cable and mounting set Set with switching device (printed circuit board), 230 VAC, coil, converter, cable and mounting set	
INT-SET51.K.24ACDC INT-SET51.K.230AC	Set with switching device (with DIN-rail mount), 24 VACDC coil and converter Set with switching device (printed circuit board), 230 VAC coil and converter	
INT-50.24ACDC INT-50.230AC	Switching device in housing IP65 24 VACDC Switching device in housing IP65 230 VAC	
INT-51.24ACDC INT-51.230AC	Switching device (with DIN-rail mount) 24 VACDC Switching device (printed circuit board) 230 VAC	
INT-FIX50	Transmission coil stationary	75
INT-MOB50	Converter mobile	
INT-MONT50	Mounting set with cable 16 m (52.49')	

Your contact

BBC Bircher Smart Access

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

Note

Technical details and recommendations concerning our products are based on experience and are intended as an aid for 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. Subject to technical alterations.