

IFE FLEX CONTROL UNITS PERFORMANCE

As leading producer of entrance systems, IFE is offering the suitable control unit for every door system. These control units are characterized through highest reliability and extensive safety features.

The compact design makes an easy and space-saving integration into every vehicle possible. An universal utilization in every vehicle is possible because of the intelligent, customizable load of the power input.

Also formerly delivered entrance systems can be equipped with the latest control unit. - Please ask our RailServices department for more information.

	INDICATION	B	S	E	N
INPUTS	Train Line Input (digital two-wire)	■	■	■	■
	Sensitive Edge Input	■	■	■	■
	Standard Digital Input	■	■	■	■
	Analog Automotive Input (U)	-	■	■	-
	Analog Input (U,I)	-	■	■	■
	Position Sensor Input	■	■	■	-
	Coding Input	■	■	■	■
OUTPUTS	Motor Output	■	■	■	-
	Medium Power Output (500mA)	■	■	■	-
	High Power Output (1.5A)	■	■	■	-
	Standard Output	■	■	■	■
	Power Supply Output	■	■	■	■
	TIL Contact	■	■	■	■
INTERFACES	Onboard Comm. Interface	■	■	■	■
	Optional Comm. Interface	-	■	■	-
	Service Interface			✓	
	UIC Interface	-	-	■	-
M	Weight	2,5kg	2,5kg	3,5kg	1 kg
REGULATIONS & NORMS	EN 50128		✓		
	EN 50129		✓		
	EN 50155		✓		
	EN 50121-3-2		✓		
	EN 45545		✓		
	IEC 61373		✓		
	IPC-A-610F Class 2		✓		

Legend:
 B ... Basic S ... Standard - ... Not available ■ ... Enhanced
 E ... Extended N ... Nano ■ ... Minimum ■ ... Maximum

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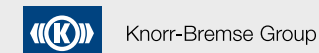
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IFE FLEX CONTROL
 SMALL. UNIVERSAL. RELIABLE.

IFE FLEX IN DETAIL



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IFE FLEX CONTROL

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IFE FLEX CONTROL UNITS PRODUCT PORTFOLIO

FLEX BASIC

Control unit for one door with low I/O-requirements

Main features: Digital signal processing, motor output, communication interface

Characteristics:

Power supply, digital in-/outputs, safety lock and motor output, CAN and service interface, sensitive edge inputs and adjustable outputs



FLEX STANDARD

Sequential control of one entrance system

Main features: Digital and analog signal processing, motor output for the sequential operation of 2 motor units, various communication interfaces

Characteristics:

Power supply, digital in- and outputs, safety lock and motor output, CAN and service interface, sensitive edge inputs and adjustable outputs, analog inputs, ethernet- and PC/104 extension interface



FLEX EXTENDED

Parallel control of door and access device, high I/O-requirements

Main features: Extended digital and analog signal processing on two boards, separated motor output for parallel operation of two motor units, various communication interfaces

Characteristics:

Power supply, digital in- and outputs, safety lock and motor output, CAN, UIC and service interface, sensitive edge inputs and adjustable outputs, analog inputs, ethernet- and PC/104 extension interface



FLEX NANO

Modernization of existing entrance systems

Main features: Digital signal processing, no motor output, communication interface

Characteristics:

Power supply, digital in- and outputs, safety lock, CAN and service interface, sensitive edge input



COMPLETE DOOR CONTROL UNITS FOR AN ENTRANCE SYSTEM

RETROFITTING

IFE FLEX IN DETAIL



1 HIGH INTEGRATION OF FUNCTIONS, NO INTERNAL PLUG CONNECTIONS

Thanks to the reduction of internal interfaces and the use of new, highly stable external connectors, the traditionally high level of reliability of previous IFE control equipment has been further increased. A consistent reduction of electrical losses also contributes to this improvement.



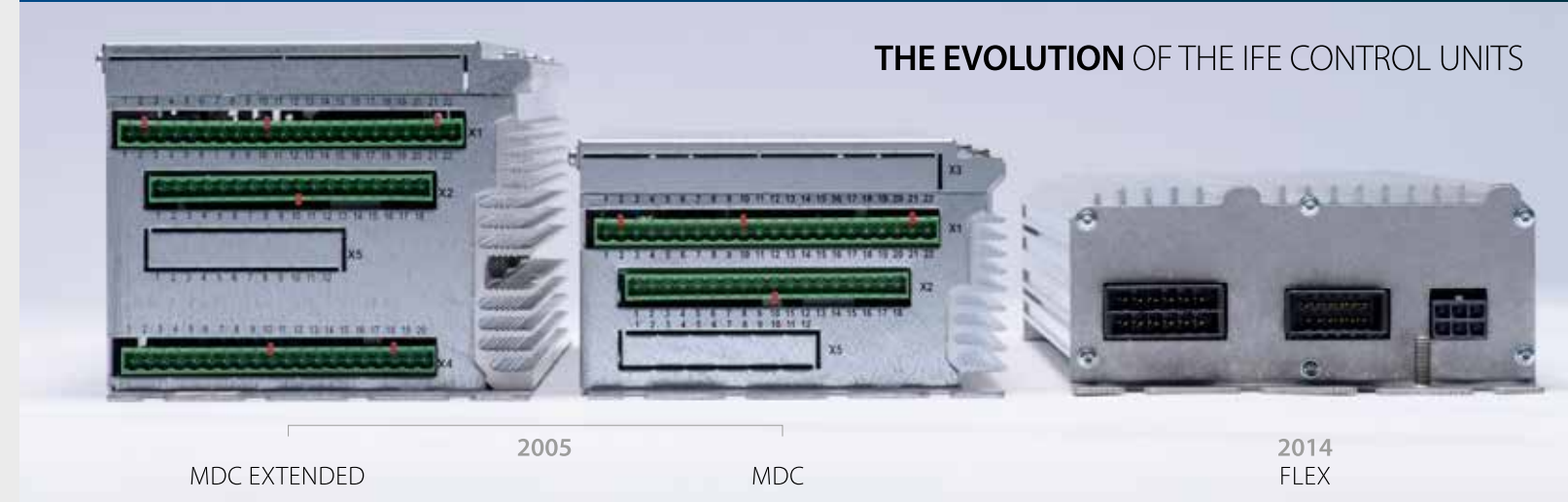
2 OPTIMIZED INTEGRATION OF COMMONLY USED INTERFACES

Market requirements are met by CAN, Ethernet and a service interface as standard features on the Standard and Extended FLEX. Other data bus connections are optionally available.



3 INDEPENDENCE OF VOLTAGE AND SMALL NUMBER OF DIFFERENT PARTS

The universal door control works with all external voltages between 24 and 110 VDC while its internal operational voltage across the whole entrance system is set to 24 V. This allows for identical electric and electronic components to be used, thus reducing the number of different parts.



THE EVOLUTION OF THE IFE CONTROL UNITS



4 INCREASED SAFETY FOR THE PASSENGERS

The IFE FLEX door control unit supervises a multitude of input and output surveillance functions, substantially contributing to passenger safety. The standard entrance system as a whole already supports the SIL2 level according to EN50129.



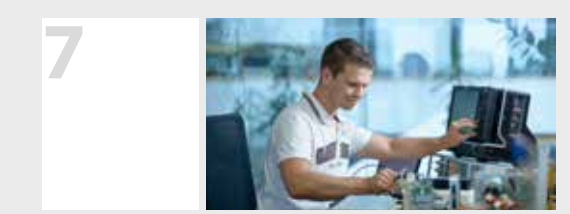
5 SUSTAINABILITY THANKS TO REDUCED ENERGY CONSUMPTION

The FLEX control reduces the overall energy loss by a quarter thanks to its intelligent control of the energy supply to the connected components, adapting their operational modes to the operational situation of the moment.



6 SEAMLESS INTEGRATION INTO ALL IFE ENTRANCE SYSTEMS

The FLEX door control unit is the optimal solution for all current IFE entrance systems. It goes without saying that previously supplied entrance systems can also be equipped with the latest generation control system.



7 THE FUTURE HAS ARRIVED

The FLEX door control unit integrates a flexible controllability of the electrical drive units for the door and the access device as well as increased diagnostic capabilities. The improved sensor technology makes condition-based maintenance become a reality.