INTELO+ DIN

SUBSYSTEM AND DATA COLLECTION CONTROL

INTELO+ DIN

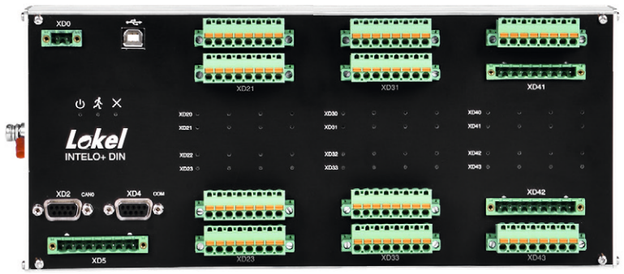
DESCRIPTION

INTELO+ DIN unit has been designed for local control of railway vehicle subsystems or for data collection necessary for superior control system. INTELO+ DIN unit significantly reduces complexity of the technology, shortens length of cable packs, reduces the number of WAGO couplings and thanks to available diagnostics tools simplifi es progress of individual tests and possible repairs.

Important feature is the option to unify CANopen interface according to CiA 301 standard for the relevant technology. This creates a significant advantage thanks to transferability to different series of railway vehicles, which eliminates the need for costly software modifications of the superior/master control system and its tuning/debugging.

KEY FEATURES

- Distributed system unit for local control functions and data collection.
- Connection to a railway vehicle bus through a CAN open railway vehicle bus in CiA 301 or through an RS485 interface.
- Designed for the following control functions:
  - Pneumatic distribution cabinets, doors, stairs, heating and air-conditioning systems.
  - Regulation of combustion engine and gearbox.
  - Wheel slip and skid protection system.
- Service and configuration of INTELO+ Viza application.
- You may select the number and type of I/O signals based on control requirements.
- Standard case design allowing installation to DIN ledge/rack.
- Establishment of MTBF/MKBF reliabilities and SIL/RAMS safety levels.
- Standards EN 50155, EN 50121-3-2, EN 61373, EN 50126, EN 50128, EN 45545, IEC 60571.



COMPONENTS

- DIN-CPU – control unit used for regulation, control and monitoring of processing operations.
- DIN-DIGI – I/O module fitted with 16×DI inputs.
- DIN-RELE – I/O module fitted with 8×DI inputs and 8×DO outputs.
- DIN-ANALOG – I/O module fitted with 8xAI inputs and 2×AO outputs and 4×DI inputs.
- INTELO+ Viza – servicing and configuration application.

VARIANTS

INTELO+ DIN / DD24	1×CAN + 1×COM* + 32×DI – 24V (48V,110V
INTELO+ DIN / DR24	1×CAN + 1×COM* + 24×DI/8xDO – 24V (48V, 110V)
INTELO+ DIN / RR24	1×CAN + 1×COM* + 16×DI/16xDO – 24V (48V, 110V)
INTELO+ DIN / DRR24	1×CAN + 1×COM* + 32×DI/16xDO – 24V (48V, 110V)
INTELO+ DIN / RRR24	1×CAN + 1×COM* + 24×DI/24xDO – 24V (48V, 110V)
INTELO+ DIN / ADR24	1×CAN + 1×COM* + 28×DI/8xDO + 8×AI/2×AO – 24V (48V, 110V)
INTELO+ DIN / ARR24	1×CAN + 1×COM* + 20×DI/16xDO + 8×AI/2×AO – 24V (48V, 110V)
INTELO+ DIN / ADRR24	1×CAN + 1×COM* + 36×DI/16×DO + 8×AI/2×AO – 24V (48V, 110V)
INTELO+ DIN / ARRR24	1×CAN + 1×COM* + 28×DI/24×DO + 8×AI/2×AO – 24V (48V, 110V)

COM* – communication pursuant to standards RS232 / RS485 / RS422

STANDARDS

EN 50155, EN 50121-3-2, EN 61373, EN 50215, EN 50126, EN 50128, EN 45545, IEC 60571, GOST15150-69, GOST12.1.004-91, GOST12.4.026-76, GOST21130-75, ISO11898-24V, CiA 301, CiA 421, CiA 423, CiA 424, SAE J1939

OPERATING CONDITIONS

Operating temperature	-40 to +70 °C	Class TX pursuant to EN50155
Supply voltage	24-110 V DC ±40 %	Range according to EN 50155
Power input	< 7 W	
Resistance to overload	1,8 kV, 5/50 µs	Complies with EN 50121-3-2
Resistance to temporary phenomena	≥ 3 s	Surge impulse at 1.4UN
	4 kV	
Altitude	max. 1400 meters above sea level	Direct temporary phenomena
Resistance against vibrations	0.75m/s²	Class A1 according to EN 50125-1
Relative air humidity	80 % at 20°C	class A according to EN 61373
Case dimensions (w × h × d)	304 × 136 × 45 mm	
Weight	1,2 kg	RACK 3U
Cooling	Natural	
Protection	IP20	

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