

# Dioline PLC flexible powerful compact control



<b>Identification</b>	Type Part-No.	DL-PLC-2CO-LUE 746026
<b>Use/Area of application</b>		
Description	ARM-based flexible powerful compact control for use in rail vehicles. Freely programmable in a comfortable IEC 61131-3 development environment. Flexible field-bus configuration with CAN / MVB or real-time Ethernet bus interface. Local-bus interface for connection of local I/O modules.	
<b>Bus interface</b>		
Bus system	<p>Field-bus system: 2 field-bus interfaces selectable: CANopen (master / slave), CAN2.0 (J1939), MVB, Profibus, RS bus</p> <p>Local bus system: Local-bus master interface for local I/O modules Serial interface RS232</p> <p>Configuration: The field buses are configured by means of software.</p> <p>Connection type, incoming bus: SUB-D socket connector, 9-pin, M3 thread Connection type, ongoing bus: SUB-D plug connector, 9-pin, M3 thread</p>	
<b>Ethernet</b>		
Bus system Connection	Profinet, Ethernet I/P, Ethercat, Ethernet Powerlink, TCP/IP M12 jack 4-pin d-coded	
Controller	Ethernet as programming and debugging interface CPU ARM926 200MHz 32bit 2MB flash memory FRAM for remanent data Real Time Clock Watchdog for system monitoring	

## Dioline PLC flexible powerful compact control

---

Software	RTOS real-time operating system Soft-SPS KW software PROCONOS® Programming languages as per IEC 61131-3: AWL, KOP, FBS, ST, AS Integrated field-bus configuration Integrated visualisation
----------	--

---

### General

---

Nominal voltage $U_N$	DC 24 V (optional DC 36 V, DC 72 V, DC 110 V)
Voltage range	DC 16.8 – 30.0 V
Ripple	max. $\pm$ 15 %
Protection device	Reverse voltage protection, Overvoltage protection
Termination	pluggable Spring terminal
Form	Aluminium enclosure
Field installation	DIN rail mounting
Protection class	IP 20
Dimensions (w x h x d)	123.0x141.5x60.5 mm
Operating temperature	-40 °C to +70 °C (+85 °C for 10 min) corresponds to EN 50155 category Tx
Storage temperature range	-40 – 85 °C
Standards	Electronic equipment on railway vehicles: EN50155:2007-07 Electromagnetic compatibility: EN50121-3-2: 2006-07 Insulation coordination: EN50124-1:2001-03 Vibrations and shocks: EN61373:1999-04

---

### Diagnostics

---

Diagnosis indications	Logic supply ( $U_L$ ) LED green PLC status LED green Field-bus status and error LED red/green Local-bus status LED red/green Ethernet Link / Act LED yellow/green Application LED freely programmable red/green
-----------------------	---

---

### Electrical isolation

---

Isolating voltage	AC 1000 V Ethernet and supply AC 500 V field bus and supply
-------------------	--

---

### PE connection

---

Connection tab	6.3 mm x 0.8 mm
----------------	-----------------

---

### Miscellaneous

---

Use	MVB CAN gateway Compact vehicle control unit Enclosed subsystem Powerpack control Door control Real-time Ethernet coupler
-----	--

# Dioline PLC flexible powerful compact control

## Dimensions

