



## Product information MS4128-L3E

Industrial Ethernet:Modular Industrial Switches:Modular switches:Switches:Layer 3 switches:MS4128-L3E  
<http://www.e-catalog.beldensolutions.com/link/57078-24455-49860-49862-24481-94675-87162/en/conf/uistate>

Name	MS4128-L3E
	
	Power MICE, modular, managed Industrial Ethernet Switch, Layer 3 Switch with Software Enhanced, Ethernet (10 Mbit/s) and Fast-ETHERNET (100 Mbit/s) and Gigabit-Ethernet (1000 Mbit/s)
<b>Delivery informations</b>	
Availability	available
<b>Product description</b>	
Description	Power MICE, modular, managed Industrial Ethernet Switch, Layer 3 Switch with Software Enhanced, Ethernet (10 Mbit/s) and Fast-ETHERNET (100 Mbit/s) and Gigabit-Ethernet (1000 Mbit/s)
Port type and quantity	up to 28 ports above media modules practicable, 4 X 1000 BASE-SX with SFP modules or 4 x 10/100/1000 BASE-TX and 24 Fast-ETHERNET (100 Mbit/s) ports (with MB-2T)
Type	MS4128-L3E
Order No.	943 009-202
<b>More interfaces</b>	
Power supply/signaling contact	2 plug-in terminal blocks, 4-pin
V.24 interface	1 x RJ11 socket
USB interface	1 x USB to connect the AutoConfiguration Adapter ACA21-USB
<b>Network size - cascading</b>	
Line - / star topology	any
Ring structure (HIPER-Ring) quantity switches	50 (reconfiguration time < 50 ms typ. at LWL)
<b>Power requirements</b>	
Operating voltage	24 V DC (-25% to +30%)
Current consumption at 24 V DC	630 mA (without media modules)
Power consumption	15 W (without media modules)
<b>Software</b>	
Management	serial interface, web interface, SNMP V1/V2/V3, HiVision, file transfer SW HTTP/TFTP
Diagnostics	LEDs, signal contacts (24V DC / 1 A), syslog, logfile, RMON, port mirroring, Topology Discovery IEEE 802.1AB (LLDP)
Configuration	command line interface (CLI), TELNET, BootP, DHCP, DHCP Option 82, HiDiscovery, auto-configuration adapter (ACA21-USB)
Security	authentication 802.1x, port-security IP and MAC, SNMP V3, ACL (L2/L3/L4 packet filtering) 20 / port
Other services	QoS 8 classes, port prioritisation IEEE 802.1D/p, VLAN IEEE 802.1Q, Multicast (IGMP Snooping/Querier), GMRP, Broadcast- UC-, MC-Limiter, Fast Aging, Flow Control IEEE 802.3x, PTP client (Precision Time Protocol, IEEE 1588), SNTP (Simple Network Time Protocol), Traffic Shaping, protocol based VLANs, static routing, dynamic routing (RIP V1/2), VRRP
<b>Redundancy</b>	
Redundancy functions	HIPER-Ring (ring structure), RSTP IEEE 802.1w (rapid spanning tree protocol), redundant network/ring coupling (master/receiver functionality), dual homing (master/receiver functionality), redundant 24 V power supply
<b>Ambient conditions</b>	
Operating temperature	0 °C ... 60 °C
Storage/transport temperature	-40 °C ... 70 °C
Relative humidity (non-condensing)	10 % ... 95 %
MTBF	24.2 years; MIL-HDBK 217F: Gb 25 °C
<b>Mechanical construction</b>	
Dimensions (W x H x D)	315 mm x 134 mm x 140 mm
Mounting	DIN Rail
Weight	2200 g
Protection class	IP20
<b>Mechanical stability</b>	
IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks



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<b>IEC 60068-2-6 vibration</b>	1 mm, 2 Hz-13.2 Hz, 90 min.; 0.7 g, 13.2 Hz-100 Hz, 90 min.; 3.5 mm, 3 Hz-9 Hz, 10 cycles, 1 octave/min.; 1 g, 9 Hz-150 Hz, 10 cycles, 1 octave/min
<b>EMC interference immunity</b>	
<b>EN 61000-4-2 electrostatic discharge (ESD)</b>	6 kV contact discharge, 8 kV air discharge
<b>EN 61000-4-3 electromagnetic field</b>	10 V/m (80-1000 MHz)
<b>EN 61000-4-4 fast transients (burst)</b>	2 kV power line, 1 kV data line
<b>EN 61000-4-5 surge voltage</b>	power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
<b>EN 61000-4-6 conducted immunity</b>	3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz)
<b>EMC emitted immunity</b>	
<b>FCC CFR47 Part 15</b>	FCC 47 CFR Part 15 Class A
<b>EN 55022</b>	EN 55022 Class A
<b>Approvals</b>	
<b>Safety of industrial control equipment</b>	cUL 508
<b>Hazardous locations</b>	cUL 1604 Class1 Div 2
<b>Shipbuilding</b>	Germanischer Lloyd
<b>Railway norm</b>	EN50121-4
<b>Scope of delivery and accessories</b>	
<b>Scope of delivery</b>	device, 2 terminal blocks, operating manual
<b>Accessories to order separately</b>	rail power supply RPS 30, RPS 80 EEC or RPS 120 EEC, terminal cable, HiVision network management, auto-configuration adapter (ACA21-USB), 19" installation frame, labels ML-MS2/MM, additional backplane MB-2T

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