PROmesh P product family

High performance with condition monitoring functions

» mechanical line monitoring, with display of wear or ageing phenomena

» monitoring of shield currents of the data lines

» Netload class III certified

» monitoring of temperatures and warning of overheating

» automatic alerting function

» 24 volt monitoring

General data	PROmesh P8+F	PROmesh P9+	PROmesh P10+	PROmesh P10X	PROmesh P20
Line diagnosis	✓	✓	✓	✓	✗
EMC monitoring	✓	✓	✓	✓	✓
TCP/IP retransmission	✗	✗	✓	✗	✗
Environment monitoring	24V, temperature	24V, temperature	24V, temperature, vibration, light, humidity	24V, temperature	24V, temperature
Performance monitoring	✓	✓	✓	✓	✓
Ports	8 x 1 Gbit/s RJ45	9 x 1 Gbit/s RJ45	8 x 1 Gbit/s RJ45 2 x 2,5 Gbit/s SFP	8 x 100 Mbit/s M12 d-coded 2 x 1 Gbit/s M12 x-coded	16 x 100 Mbit/s RJ45 4 x 1 Gbit/s SFP
PROFINET standard	V 2.4	V 2.4	V 2.4	V 2.4	V 2.3
PROFINET Conformance class	B	B	B	B	B
Netload class	III	III	III	III	III
Routing	✗	✗	NAT	✗	NAT
Firewall	✗	✗	✓	✗	✓
PoE	✗	✗	✗	✗	✗
VLAN	✓	✓	✓	✓	✓
Redundancy	MRP, RSTP, MSTP	MRP, RSTP, MSTP	MRP, RSTP, MSTP	MRP, RSTP, MSTP	MRP, RSTP, MSTP
SNMP	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
Protection rating	IP20	IP20	IP20	IP67	IP30
Operating temperature	-40°C ... 75°C	-40°C to 75°C	-40°C to 85°C	-40°C to 75°C	-40°C to 75°C
Voltage supply	24 VDC	24 VDC	24 VDC	24 VDC	24 VDC
Dimensions (W x H x D) in mm	150 x 130 x 60	60 x 110 x 131	60 x 110 x 131	60 x 284 x 28	68 x 130 x 138
Weight	900 g	900 g	900 g	800 g	960 g
Type of assembly	Top hat rail	Top hat rail	Top hat rail	Wall mounting	Top hat rail
Backplane [Gbps]	16	18	26	20	12,8
Throughput [Mpps]	13,4	13,4	19,3	14,9	8,5
Shared buffer [Mbit]	2	2	2	2	4
Article number	114110198	114110194	114110204	114110211	114110022

PROmesh P8+F

PROmesh P9+

PROmesh P10+

PROmesh P10X

PROmesh P20

INDUSTRIAL Production product of the year 2023 nominated