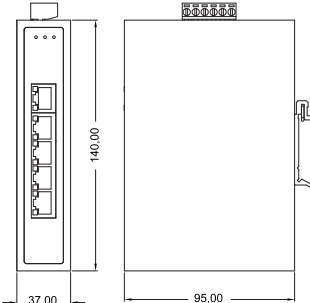


Ethernet · Unmanaged switch 5 ports

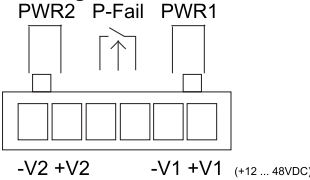
10 / 100 Mbit, autonegotiation, Auto MDI/MDI-X, DC 12 V / 24 V, redundant
 5 Fast Ethernet ports, Broadcast storm protection
 ESD 4 kV, surge 3 kV, expanded temperature range



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
5 port, RJ45				
Operation temperature range	-10 °C – 60 °C	772000	ET-SWU5ST	1
	-40 °C – 75 °C	772001	ET-SWU5ET	1

Communication

Communication	772000	772001
Standard	IEEE 802.3, 802.3u, 802.3x	
LAN	10 / 100 Base-TX	
Cable length (segment)	Max. 100 m	
Rate of transmission	Max. 100 Mbps	
Connection technology (data)	5 × RJ45	
Broadcast Storm Rate Limit	200 pps (200M), 20 pps (10M)	
Status Indication	P1, P2, P-Fail, 10/100T(x): link/activity, duplex/collision	

General

Operation voltage range	DC 12 V - DC 48 V, redundant	
Power consumption	3 W	
Operation temperature range	-10 °C – 60 °C	-40 °C – 75 °C
Storage temperature range	-40 °C – 85 °C	
Relative humidity (operation)	5% - 95% (non-condensing)	
Relative humidity (storage)	0% - 95% (non-condensing)	
Protection class	IP 30	
Standards	UL 60950-1, CAN/CSA-C22.2 No.60950 U.S.A.: FCC Part 15 CISPR 22 EU: EN 55011, EN 61000-6-4, EN 55022 Class A, EN 61000-3-2/3, EN 55024, IEC 61000-4-2/3/4/5/6/8 EN 61000-6-2, IEC60068-2-27, IEC 60068-2-32, IEC 60068-2-6	
Approvals	cULus, CE, FCC	

Safety

ESD (Ethernet)	DD 4 kV
Surge (EFT for power)	DC 3 kV
Reverse voltage protection	Yes
Rated over load protection	0.9 A @ DC 12 V

Mechanics

Dimensions (w × h × d)	37.0 × 140.0 × 95.0 mm
Housing material	Metal
Field installation	Snaps on to TS 35 rail (EN 50022), wall mounting
Installation position	Any
Weight (kg/piece)	0.600
Termination	Screw terminal, plug-in: 0.2–2.5 mm ²

Monitoring

Power supply voltage monitoring	Relay, 1 normally open
Switching voltage	AC 120 V / DC 28 V
Switching current	1 A @ DC 24 V
Insulation voltage	DC 500 V

Note

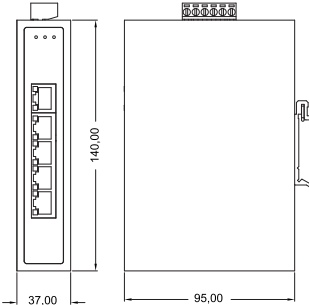
For more information on LED definition, see the data sheet.

Ethernet · Unmanaged switches 5 ports

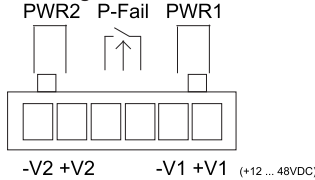
10 / 100 / 1000 Mbit, autonegotiation, Auto MDI/MDI-X, DC 12 V / 24 V, redundant
 5 Fast Ethernet ports, frame transmission up to 9 kB (Jumbo frames)
 ESD 4 kV, surge 3 kV, expanded temperature range



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
5 port, RJ45				
Operation temperature range	-10 °C – 60 °C	772010	ET-SWGU5ST	1
	-40 °C – 75 °C	772011	ET-SWGU5ET	1

Communication	772010	772011
Standard	IEEE 802.3, 802.3u, 802.3x	
LAN	10 / 100 Base-TX, 10 / 1000 Base-T	
Cable length (segment)	Max. 100 m (4-wire Cat.5e, Cat.6 RJ45 cable)	
Rate of transmission	Max. 1000 Mbps	
Connection technology (data)	5 × RJ45	
Broadcast Storm Rate Limit	7926 pps	
Status Indication	P1, P2, P-Fail; 10/100T(x): Link/Activity, Duplex/Collision	
General		
Operation voltage range	DC 12 V - DC 48 V, redundant	
Power consumption	4.6 W	
Operation temperature range	-10 °C – 60 °C	-40 °C – 75 °C
Storage temperature range	-40 °C – 85 °C	
Relative humidity (operation)	5% - 95% (non-condensing)	
Relative humidity (storage)	0% - 95% (non-condensing)	
Protection class	IP 30	
Standards	UL 60950-1, CAN/CSA-C22.2 No.60950 U.S.A.: FCC Part 15 CISPR 22 EU: EN 55011, EN 61000-6-4, EN 55022 Class A, EN 61000-3-2/3, EN 55024, IEC 61000-4-2/3/4/5/6/8 EN 61000-6-2, IEC60068-2-27, IEC 60068-2-32, IEC 60068-2-6	

Approvals	cULus, CE, FCC
Safety	
ESD (Ethernet)	DD 4 kV
Surge (EFT for power)	DC 3 kV
Reverse voltage protection	Yes
Rated over load protection	0.9 A @ DC 12 V
Mechanics	
Dimensions (w × h × d)	37.0 × 140.0 × 95.0 mm
Housing material	Metal
Field installation	rail TS 35 (EN 50022)
Installation position	Any
Weight (kg/piece)	0.600
Termination	Screw terminal, plug-in: 0.2–2.5 mm ²
Monitoring	
Power supply voltage monitoring	Relay, 1 normally open
Switching voltage	AC 120 V / DC 28 V
Switching current	1 A @ DC 24 V
Insulation voltage	DC 500 V

Note

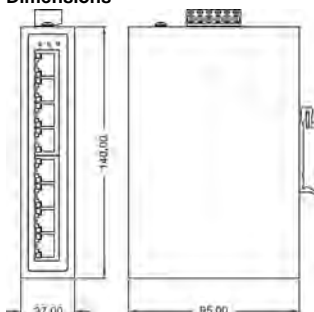
For more information on LED definition, see the data sheet.

Ethernet - Unmanaged switch 8 ports

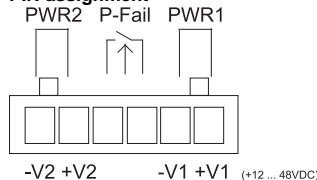
10 / 100 Mbit, autonegotiation, Auto MDI/MDI-X, DC 12 V / 24 V, redundant
 8 Fast Ethernet ports, Broadcast storm protection
 ESD 4 kV, surge 3 kV, expanded temperature range



Dimensions



PIN assignment



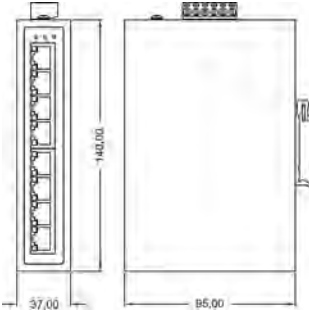
Description	Part-No.	Type	PU	
8 port, RJ45				
Operation temperature range	-10 °C – 60 °C	772002	ET-SWU8ST	1
	-40 °C – 75 °C	772003	ET-SWU8ET	1
8 port, RJ45				
Communication		772002	772003	
Standard	IEEE 802.3, 802.3u, 802.3x			
LAN	10 / 100 Base-T(X)			
Cable length (segment)	Max. 100 m			
Rate of transmission	Max. 100 Mbps			
Connection technology (data)	8 x RJ45			
Broadcast Storm Rate Limit	200 pps (200M), 20 pps (10M)			
Status Indication	P1, P2, P-Fail, 10/100T(x): link/activity, duplex/collision			
General				
Operation voltage range	DC 12 V - DC 48 V, redundant			
Power consumption	5 W			
Operation temperature range	-10 °C – 60 °C		-40 °C – 75 °C	
Storage temperature range	-40 °C – 85 °C			
Relative humidity (operation)	5% - 95% (non-condensing)			
Relative humidity (storage)	0% - 95% (non-condensing)			
Protection class	IP 30			
Standards	UL 60950-1, CAN/CSA-C22.2 No.60950 U.S.A.: FCC Part 15 CISPR 22 EU: EN 55011, EN 61000-6-4, EN 55022 Class A, EN 61000-3-2/3, EN 55024, IEC 61000-4-2/3/4/5/6/8 EN 61000-6-2, IEC60068-2-27, IEC 60068-2-32, IEC 60068-2-6			
Approvals	cULus, CE, FCC			
Safety				
ESD (Ethernet)	DD 4 kV			
Surge (EFT for power)	DC 3 kV			
Reverse voltage protection	Yes			
Rated over load protection	0.9 A @ DC 12 V			
Mechanics				
Dimensions (w x h x d)	37.0 x 140.0 x 95.0 mm			
Housing material	Metal			
Field installation	rail TS 35 (EN 50022)			
Installation position	Any			
Weight (kg/piece)	0.600			
Termination	Screw terminal, plug-in: 0.2–2.5 mm ²			
Monitoring				
Power supply voltage monitoring	Relay, 1 normally open			
Switching voltage	AC 120 V / DC 28 V			
Switching current	1 A @ DC 24 V			
Insulation voltage	DC 500 V			
Note				
For more information on LED definition, see the data sheet.				

Ethernet - Unmanaged switch 8 ports

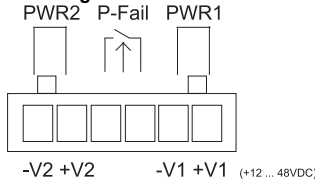
10 / 100 / 1000 Mbit, autonegotiation, Auto MDI/MDI-X, DC 12 V / 24 V, redundant
 8 Fast Ethernet ports, frame transmission up to 9 kB
 ESD 4 kV, Surge 3 kV



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Description	8 port, RJ45	772012	ET-SWGU8ST	1
Communication				
772012				
Standard	IEEE 802.3, 802.3u, 802.3x			
LAN	10 / 100 Base-TX, 10 / 1000 Base-T			
Cable length (segment)	Max. 100 m (4-wire Cat.5e, Cat.6 RJ45 cable)			
Rate of transmission	Max. 1000 Mbps			
Connection technology (data)	8 x RJ45			
Broadcast Storm Rate Limit	7926 pps			
Status Indication	P1, P2, P-Fail, 10/100T(x): link/activity, duplex/collision			
General				
Operation voltage range	DC 12 V - DC 48 V, redundant			
Power consumption	4.6 W			
Power output	-			
Operation temperature range	-10 °C – 60 °C			
Storage temperature range	-40 °C – 85 °C			
Relative humidity (operation)	5% - 95% (non-condensing)			
Relative humidity (storage)	0% - 95% (non-condensing)			
Protection class	IP 30			
Standards	UL 60950-1, CAN/CSA-C22.2 No.60950 U.S.A.: FCC Part 15 CISPR 22 EU: EN 55011, EN 61000-6-4, EN 55022 Class A, EN 61000-3-2/3, EN 55024, IEC 61000-4-2/3/4/5/6/8 EN 61000-6-2, IEC60068-2-27, IEC 60068-2-32, IEC 60068-2-6			
Approvals	cULus, CE, FCC			
Safety				
ESD (Ethernet)	DD 4 kV			
Surge (EFT for power)	DC 3 kV			
Reverse voltage protection	Yes			
Rated over load protection	1.6 A @ DC 12 V			
Mechanics				
Dimensions (w x h x d)	37.0 x 140.0 x 95.0 mm			
Housing material	Metal			
Field installation	rail TS 35 (EN 50022)			
Installation position	Any			
Weight (kg/piece)	0.600			
Termination	Screw terminal, plug-in: 0.2–2.5 mm ²			
Monitoring				
Power supply voltage monitoring	Relay, 1 normally open			
Switching voltage	AC 120 V / DC 28 V			
Switching current	1 A @ DC 24 V			
Insulation voltage	DC 500 V			

Note

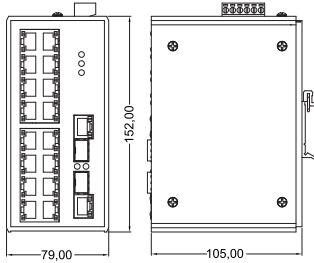
For more information on LED definition, see the data sheet.

Ethernet · Unmanaged switch 16+2G ports

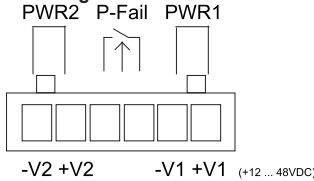
10 / 100 / 1000 Mbit, autonegotiation, Auto MDI/MDI-X, DC 12 V / 24 V, redundant
Simple and flexible expansion to fibre optic with SFP base



Dimensions



PIN assignment



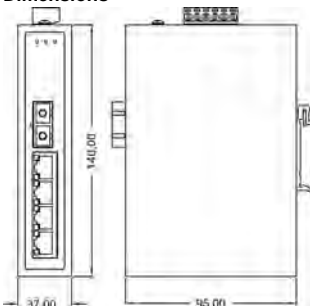
Description	Part-No.	Type	PU	
Description	16 port + 2G, RJ45/SFP	772014	ET-SWGU18ST	1
Communication				
772014				
Standard	IEEE 802.3, 802.3ab, 802.3u, 802.3x, 802.3z			
LAN	100 Base-TX, 10 / 1000 Base-T, 1000 Base-SX/LX/LHX/XD/ZX/EZX			
Cable length (segment)	Max. 100 m (4-wire Cat.5e, Cat.6 RJ45 cable)			
Rate of transmission	Ethernet : 10/100 Mbps, gigabit converter : 10/100/1000 Mbps			
Connection technology (data)	16 RJ45 + 2 RJ45/SFP (mini GBIC)			
Broadcast Storm Rate Limit	-			
Status Indication	PWR1, PWR2, P-Fail, Gigabit Chopper: Link/Activity, Speed (1000Mbps), Gigabit SFP: Link/Activity			
General				
Operation voltage range	DC 12 V - DC 48 V, redundant			
Power consumption	6.5 W			
Operation temperature range	-10 °C – 60 °C			
Storage temperature range	-40 °C – 85 °C			
Relative humidity (operation)	5% - 95% (non-condensing)			
Relative humidity (storage)	0% - 95% (non-condensing)			
Protection class	IP 30			
Standards	UL 60950-1, CAN/CSA-C22.2 No.60950 U.S.A.: FCC Part 15 CISPR 22 EU: EN 55011, EN 61000-6-4, EN 55022 Class A, EN 61000-3-2/3, EN 55024, IEC 61000-4-2/3/4/5/6/8 EN 61000-6-2, IEC60068-2-27, IEC 60068-2-32, IEC 60068-2-6			
Approvals	cULus, CE, FCC			
Safety				
ESD (Ethernet)	DD 4 kV			
Surge (EFT for power)	DC 3 kV			
Reverse voltage protection	Yes			
Rated over load protection	3.5 A @ DC 12 V			
Mechanics				
Dimensions (w × h × d)	79.0 × 152.0 × 105.0 mm			
Housing material	Metal			
Field installation	rail TS 35 (EN 50022)			
Installation position	Any			
Weight (kg/piece)	1.100			
Termination	Screw terminal, plug-in: 0.2–2.5 mm ²			
Monitoring				
Power supply voltage monitoring	Relay, 1 normally open			
Switching voltage	AC 120 V / DC 28 V			
Switching current	1 A @ DC 24 V			
Insulation voltage	DC 500 V			
Note				
For more information on LED definition, see the data sheet.				

Ethernet - Unmanaged switches 4+1/2FX ports

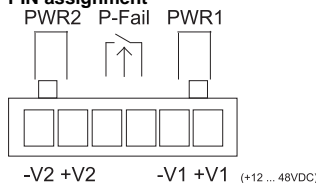
**10/100Base TX, 100Base FX Multi Mode, Auto MDI/MDI-X, DC 12 V / 24 V, redundant
4 Fast Ethernet ports, 1x Multimode SC, 2x Single Mode SC
ESD 4 kV, surge 3 kV, full/half duplex operation, broadcast storm protection**



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Description	4 port, RJ45, 1 port Multimode	772005	ET-SWU4-1STSC	1
	4 port, RJ45, 2 port single mode	772007	ET-SWU4-2STS	1

Communication	772005	772007
Standard	IEEE 802.3, 802.3u, 802.3x	
LAN	10 / 100 Base-T(X), 100 Base FX	
Cable length (segment)	Copper max. 100 m, multi-mode fibre max. 2000 m	
Rate of transmission	Max. 100 Mbps	
Connection technology (data)	4 x RJ45, 1 x SC or 4 x RJ45, 2 x SC	
Broadcast Storm Rate Limit	200 pps (200M), 20 pps (10M)	
Status Indication	P1, P2, P-Fail, 10/100T(x): link/activity, duplex/collision	

Fibre-optic cables (Single Mode)	
Wavelength	1310 nm
Tx Power	-8 / -15 dBm
Rx sensitivity	-34 dBm
Parameters	9 / 125 µm

Fibre-optic cables (Multi Mode)	
Wavelength	1310 nm
Tx Power	-14 / -20 dBm
Rx sensitivity	-31 dBm
Parameters	50/125 µm, 62.5/125 µm

General	
Operation voltage range	DC 24 V - DC 48 V, redundant
Power consumption	5 W (1SC), 6.5 W (2SC)
Operation temperature range	-10 °C - 60 °C
Storage temperature range	-40 °C - 85 °C
Relative humidity (operation)	5% - 95% (non-condensing)
Relative humidity (storage)	0% - 95% (non-condensing)
Protection class	IP 30
Standards	UL 60950-1, CAN/CSA-C22.2 No.60950 U.S.A.: FCC Part 15 CISPR 22 EU: EN 55011, EN 61000-6-4, EN 55022 Class A, EN 61000-3-2/3, EN 55024, IEC 61000-4-2/3/4/5/6/8 EN 61000-6-2, IEC60068-2-27, IEC 60068-2-32, IEC 60068-2-6

Approvals	cULus, CE, FCC
Safety	
ESD (Ethernet)	DD 4 kV
Surge (EFT for power)	DC 3 kV
Reverse voltage protection	Yes
Rated over load protection	0.9 A @ DC 12 V (1SC), 1.6 A @ DC 12 V (2SC)

Mechanics	
Dimensions (w x h x d)	37.0 x 140.0 x 95.0 mm
Housing material	Metal
Field installation	rail TS 35 (EN 50022)
Installation position	Any
Weight (kg/piece)	0.600
Termination	Screw terminal, plug-in: 0.2-2.5 mm ²

Monitoring	
Power supply voltage monitoring	Relay, 1 normally open
Switching voltage	AC 120 V / DC 28 V
Switching current	1 A @ DC 24 V
Insulation voltage	DC 500 V

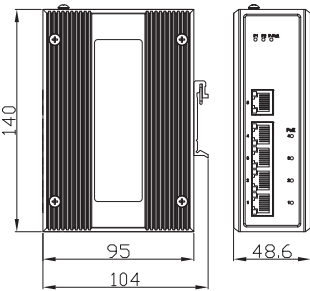
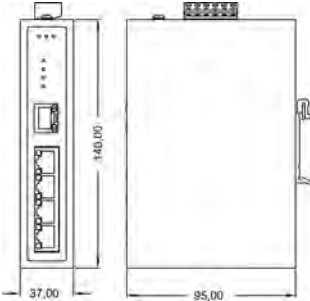
Note
For more information on LED definition, see the data sheet.

Ethernet - Unmanaged PoE switches 5 ports

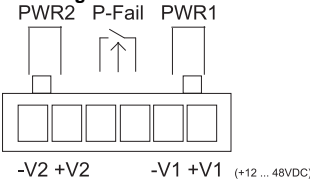
10 / 100 MBit, Auto MDI/MDI-X, DC 48 V, redundant
 5 Fast Ethernet ports, autonegotiation
 ESD 4 kV, Surge 3 kV



Dimensions



PIN assignment



Description	Part-No.	Type	PU
Description	PoE 5 port, 48 V 772020	ET-PU5ST	1
	PoE 5 port, 24/48 V 772021	ET-PU5AST	1

Communication

	772020	772021
Standard	IEEE 802.3, 802.3u, 802.3x, 802.3af	
LAN	10 / 100 Base-TX	
Cable length (segment)	Max. 100 m (4-wire Cat.5e, Cat.6 RJ45 cable)	
Rate of transmission	Max. 100 Mbps	
Connection technology (data)	5 x RJ45	
Broadcast Storm Rate Limit	-	
Status Indication	P1, P2, P-Fail, 10/100T(x): link/activity, duplex/collision	

General

Operation voltage range	DC 48 V redundant	DC 24/48 V redundant
Power consumption	65 W full load PoE	62.5 W full load PoE
Operation temperature range	-10 °C – 60 °C	
Storage temperature range	-40 °C – 85 °C	
Relative humidity (operation)	5% - 95% (non-condensing)	
Relative humidity (storage)	0% - 95% (non-condensing)	
Protection class	IP 30	
Standards	UL 60950-1, CAN/CSA-C22.2 No.60950 U.S.A.: FCC Part 15 CISPR 22 EU: EN 55011, EN 61000-6-4, EN 55022 Class A, EN 61000-3-2/3, EN 55024, IEC 61000-4-2/3/4/5/6/8 EN 61000-6-2, IEC60068-2-27, IEC 60068-2-32, IEC 60068-2-6	
Approvals	cULus, CE, FCC	

Safety

ESD (Ethernet)	DD 4 kV
Surge (EFT for power)	DC 3 kV
Reverse voltage protection	Yes
Rated over load protection	15,4 W @ 48 V (per PoE port)

Mechanics

Dimensions (w x h x d)	37.0 x 140.0 x 95.0 mm	48.6 x 140.0 x 95.0 mm
Housing material	Metal	
Field installation	rail TS 35 (EN 50022)	
Installation position	Any	
Weight (kg/piece)	0.600	0.800
Termination	Screw terminal, plug-in: 0.2–2.5 mm ²	

Monitoring

Power supply voltage monitoring	Relay, 1 normally open
Switching voltage	AC 120 V / DC 28 V
Switching current	1 A @ DC 24 V
Insulation voltage	DC 500 V

Note

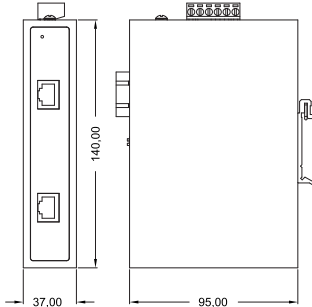
For more information on LED definition, see the data sheet.

Ethernet · PoE splitter

10 / 100 / 1000 Mbit, PoE input and data output
12.95 W with DC 24 V, DC 48 V IN, DC 24 V OUT
IEC 802.3af compatible, -40°C – +75°C, ESD 4 kV, surge 3 kV



Dimensions



PIN assignment



Output DC 24V

Description	Part-No.	Type	PU	
Description	Power splitter	772022	ET-PSPET	1
Communication		772022		
Standard	IEEE 802.3, 802.3u, 802.3x, 802.3af, 802.3ab			
LAN	10 / 100 Base-TX, 10 / 1000 Base-T			
Cable length (segment)	Max. 100 m (4-wire Cat.5e)			
Rate of transmission	Max. 100 Mbps			
Connection technology (data)	PoE IN, OUT: RJ 45			
Broadcast Storm Rate Limit	-			
Status Indication	Power, Link/Activity, Duplex/Collision			
General				
Operation voltage range	DC 44 V - DC 57 V			
Power consumption	17.8 W @ 48 V			
Power output	12.95 W @ 24 V			
Operation temperature range	-40 °C – 75 °C			
Storage temperature range	-40 °C – 85 °C			
Relative humidity (operation)	5% - 95% (non-condensing)			
Relative humidity (storage)	0% - 95% (non-condensing)			
Protection class	IP 30			
Standards	UL 60950-1, CAN/CSA-C22.2 No.60950 U.S.A.: FCC Part 15 CISPR 22 EU: EN 55011, EN 61000-6-4, EN 55022 Class A, EN 61000-3-2/3, EN 55024, IEC 61000-4-2/3/4/5/6/8 EN 61000-6-2, IEC60068-2-27, IEC 60068-2-32, IEC 60068-2-6			
Approvals	cULus, CE, FCC			
Safety				
ESD (Ethernet)	DD 4 kV			
Surge (EFT for power)	DC 3 kV			
Reverse voltage protection	Yes			
Rated over load protection	0.539 A @ DC 24 V			
Mechanics				
Dimensions (w × h × d)	37.0 × 140.0 × 95.0 mm			
Housing material	Metal			
Field installation	rail TS 35 (EN 50022)			
Installation position	Any			
Weight (kg/piece)	0.600			
Termination	Screw terminal, plug-in: 0.2–2.5 mm ²			
Monitoring				
Power supply voltage monitoring	-			
Switching voltage	-			
Switching current	-			
Insulation voltage	-			

Note

For more information on LED definition, see the data sheet.