



## Class III Surge Protector YSPD-2HD3-30-R



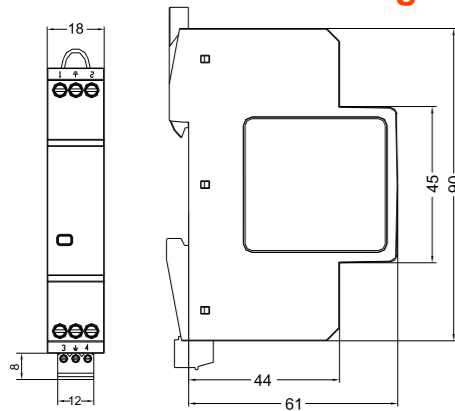
### Description

DIN rail, compact Type 3 / Class III SPD with MOV & GDT and narrow design for protecting industrial electronics system and equipment at boundaries from LPZ 1-3 and higher

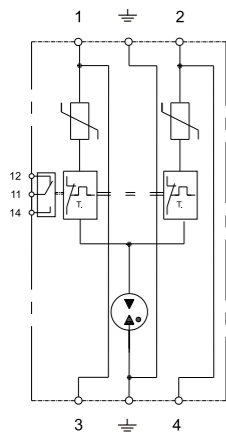
### Features

- Non-destructive screening technology
- Reliable temperature control tripping technology
- Super small size
- Fault indication Remote signal contact

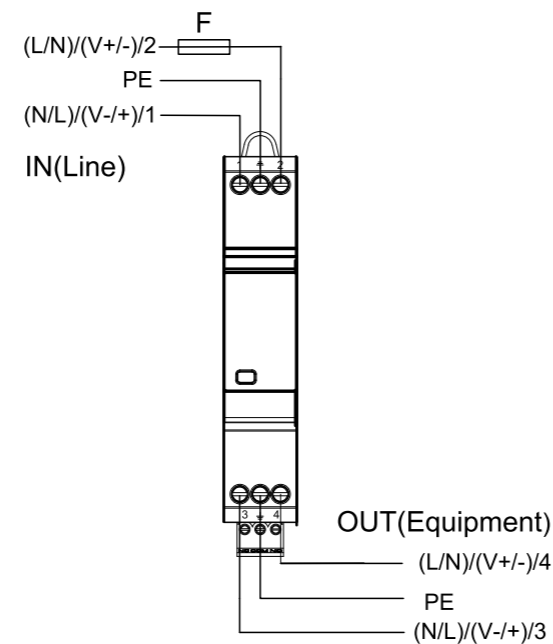
### Dimension drawing



### Circuit diagram



### Wiring diagram



### Electrical

Product model	YSPD-2HD3-30-R
SPD according to IEC 61643-1/11	Class III
SPD according to EN 61643-11	Type 3
SPD according to GB/T 18802.11	Class III
Number of ports	1
Technology	MOV&GDT
Nominal Voltage (U <sub>N</sub> )	24 Vac/24 Vdc
Max. continuous operating voltage (U <sub>c</sub> )	30 Vac
Nominal discharge current (8/20μs) (I <sub>n</sub> )	1 kA(1-2, 1/2-PE)
Combined impulse (U <sub>oc</sub> )	2 kV(1-2, 1/2-PE)
Rated load current (I <sub>L</sub> )	25 A
Voltage protection level (U <sub>p</sub> )	0.18 kV(1-2), 0.60 kV(1/2-PE)
Response time (t <sub>A</sub> )	≤25 ns(1-2), ≤100 ns(1/2-PE)
Max. overcurrent protection	≤25 AgL/gG
Short-circuit withstand capability (I <sub>scCR</sub> )	6 kArms

### Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (H×W×D)	90 mm x 18 mm x 66 mm
Cross-sectional area (max.)	4 mm <sup>2</sup> solid/2.5 mm <sup>2</sup> flexible
Cross-sectional area (min.)	0.5 mm <sup>2</sup> solid/flexible
Stripping length terminals	8 mm
Torque contacts	0.4 N*m

### Indication

Operating status/fault indication	Green / red
Type of remote signaling contact	Changeover contact
Switching capacity	Max(125 Vac / 1 A), Min(5 V / 1mA)
Cross-sectional area for remote signaling terminals (max.)	1.5 mm <sup>2</sup>
Stripping length for remote signaling terminals	7 mm
Torque contacts for indication terminals	0.2 N*m

### Environmental

Location category	Indoor only
Operation temperature range (T <sub>u</sub> )	-40 °C...+85 °C
Relative humidity	≤ 95 % (max 40 °C)
Operation altitude	≤ 4 km
Degree of protection	IP 20
Enclosure material	Thermoplastic, UL 94V-0
Product code	911160



## Class III Surge Protector YSPD-2HD3-60-R



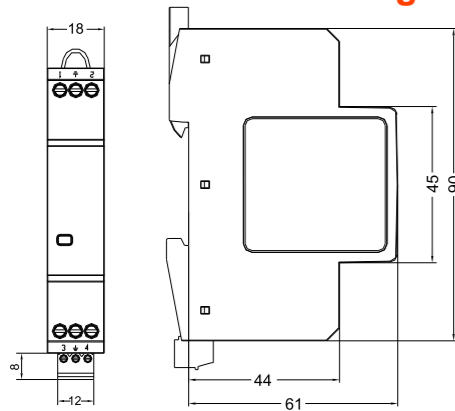
### Description

DIN rail, compact Type 3 / Class III SPD with MOV & GDT and narrow design for protecting industrial electronics system and equipment at boundaries from LPZ 1-3 and higher

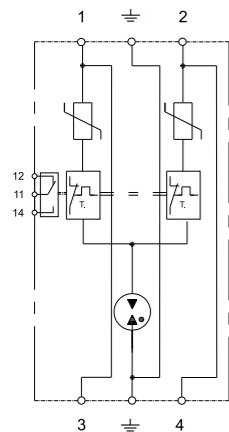
### Features

- Non-destructive screening technology
- Reliable temperature control tripping technology
- Super small size
- Fault indication Remote signal contact

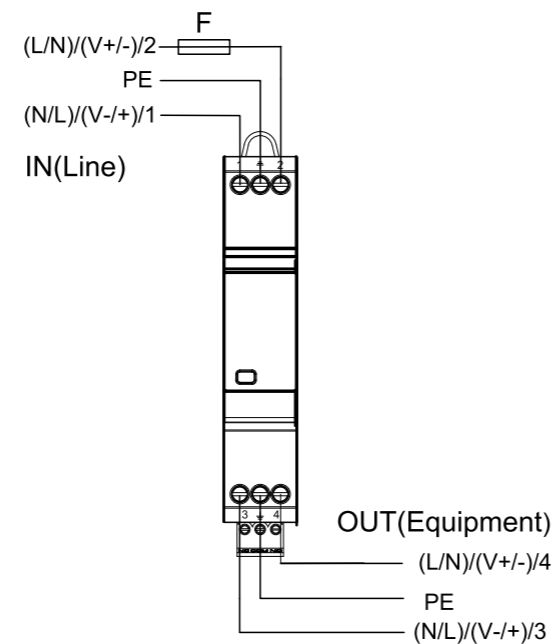
### Dimension drawing



### Circuit diagram



### Wiring diagram



### Electrical

Product model	YSPD-2HD3-60-R
SPD according to IEC 61643-1/11	Class III
SPD according to EN 61643-11	Type 3
SPD according to GB/T 18802.11	Class III
Number of ports	1
Technology	MOV&GDT
Nominal Voltage (U <sub>N</sub> )	48 V
Max. continuous operating voltage (U <sub>c</sub> )	60 Vac
Nominal discharge current (8/20μs) (I <sub>n</sub> )	2 kA(1-2, 1/2-PE)
Combined impulse (U <sub>oc</sub> )	4 kV(1-2, 1/2-PE)
Rated load current (I <sub>L</sub> )	25 A
Voltage protection level (U <sub>p</sub> )	0.35 kV(1-2), 0.73 kV(1/2-PE)
Response time (t <sub>A</sub> )	≤25 ns(1-2), ≤100 ns(1/2-PE)
Max. overcurrent protection	≤25 AgL/gG
Short-circuit withstand capability (I <sub>SCCR</sub> )	6 kArms

### Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (H×W×D)	90 mm x 18 mm x 66 mm
Cross-sectional area (max.)	4 mm <sup>2</sup> solid/2.5 mm <sup>2</sup> flexible
Cross-sectional area (min.)	0.5 mm <sup>2</sup> solid/flexible
Stripping length terminals	8 mm
Torque contacts	0.4 N*m

### Indication

Operating status/fault indication	Green / red
Type of remote signaling contact	Changeover contact
Switching capacity	Max(125 Vac / 1 A), Min(5 V / 1 mA)
Cross-sectional area for remote signaling terminals (max.)	1.5 mm <sup>2</sup>
Stripping length for remote signaling terminals	7 mm
Torque contacts for indication terminals	0.2 N*m

### Environmental

Location category	Indoor only
Operation temperature range (T <sub>u</sub> )	-40 °C...+85 °C
Relative humidity	≤ 95 % (max 40 °C)
Operation altitude	≤ 4 km
Degree of protection	IP 20
Enclosure material	Thermoplastic, UL 94V-0
Product code	911162



## Class III Surge Protector YSPD-4HD3-150-R



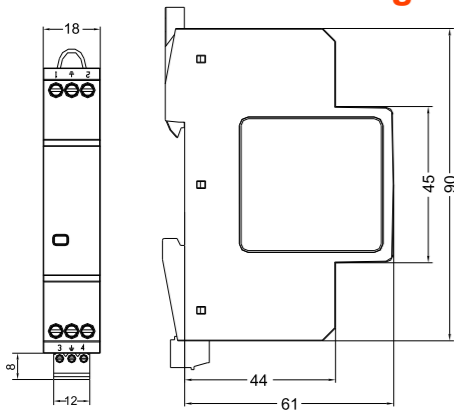
### Description

DIN rail, compact Type 3 / Class III SPD with MOV & GDT and narrow design for protecting industrial electronics system and equipment at boundaries from LPZ 1-3 and higher

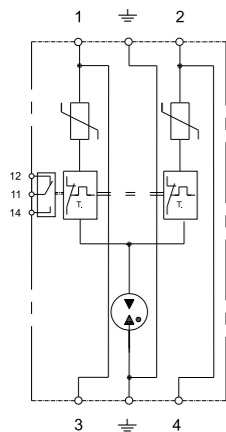
### Features

- Non-destructive screening technology
- Reliable temperature control tripping technology
- Super small size
- Fault indication Remote signal contact

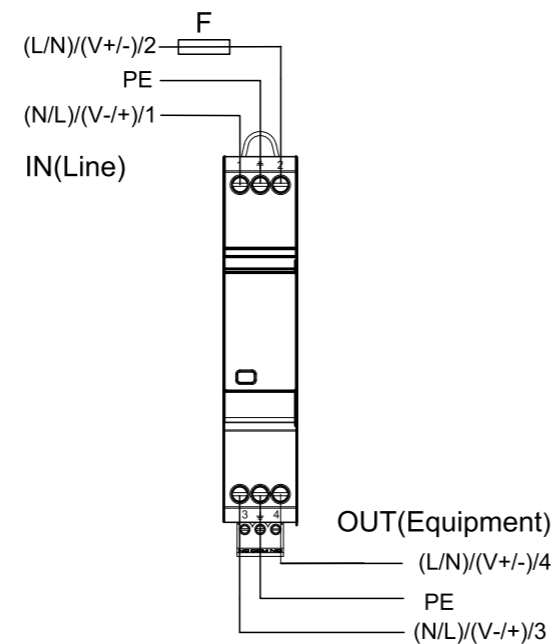
### Dimension drawing



### Circuit diagram



### Wiring diagram



### Electrical

Product model	YSPD-4HD3-150-R
SPD according to IEC 61643-1/11	Class III
SPD according to EN 61643-11	Type 3
SPD according to GB/T 18802.11	Class III
Number of ports	1
Technology	MOV&GDT
Nominal Voltage (U <sub>N</sub> )	120 V
Max. continuous operating voltage (U <sub>c</sub> )	150 Vac
Nominal discharge current (8/20μs) (I <sub>n</sub> )	2 kA(1-2,1/2-PE)
Combined impulse (U <sub>oc</sub> )	4 kV(1-2,1/2-PE)
Rated load current (I <sub>L</sub> )	25 A
Voltage protection level (U <sub>p</sub> )	0.6 kV(1-2),0.8 kV(1/2-PE)
Response time (t <sub>A</sub> )	≤25 ns(1-2),≤100 ns(1/2-PE)
Max. overcurrent protection	≤25 AgL/gG
Short-circuit withstand capability (I <sub>SCCR</sub> )	6 kArms

### Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (H×W×D)	90 mm x 18 mm x 66 mm
Cross-sectional area (max.)	4 mm <sup>2</sup> solid/2.5 mm <sup>2</sup> flexible
Cross-sectional area (min.)	0.5 mm <sup>2</sup> solid/flexible
Stripping length terminals	8 mm
Torque contacts	0.4 N*m

### Indication

Operating status/fault indication	Green / red
Type of remote signaling contact	Changeover contact
Switching capacity	Max(125 Vac / 1 A), Min(5 V / 1mA)
Cross-sectional area for remote signaling terminals (max.)	1.5 mm <sup>2</sup>
Stripping length for remote signaling terminals	7 mm
Torque contacts for indication terminals	0.2 N*m

### Environmental

Location category	Indoor only
Operation temperature range (T <sub>u</sub> )	-40 °C...+85 °C
Relative humidity	≤ 95 % (max 40 °C)
Operation altitude	≤ 4 km
Degree of protection	IP 20
Enclosure material	Thermoplastic,UL 94V-0
Product code	911165



## Class III Surge Protector YSPD-6HD3-255-R



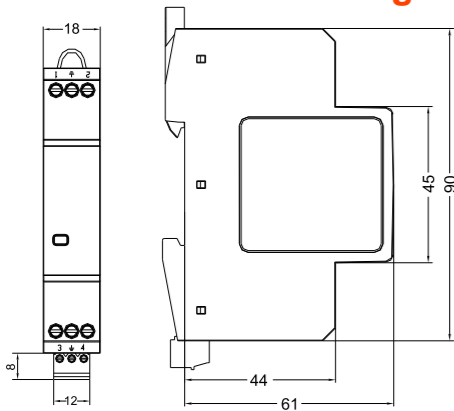
### Description

DIN rail, compact Type 3 / Class III SPD with MOV & GDT and narrow design for protecting industrial electronics system and equipment at boundaries from LPZ 1-3 and higher

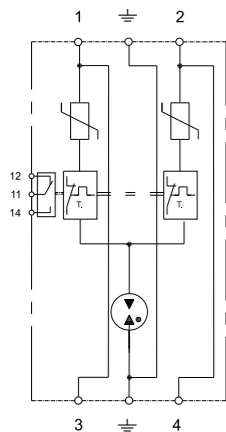
### Features

- Non-destructive screening technology
- Reliable temperature control tripping technology
- Super small size
- Fault indication Remote signal contact

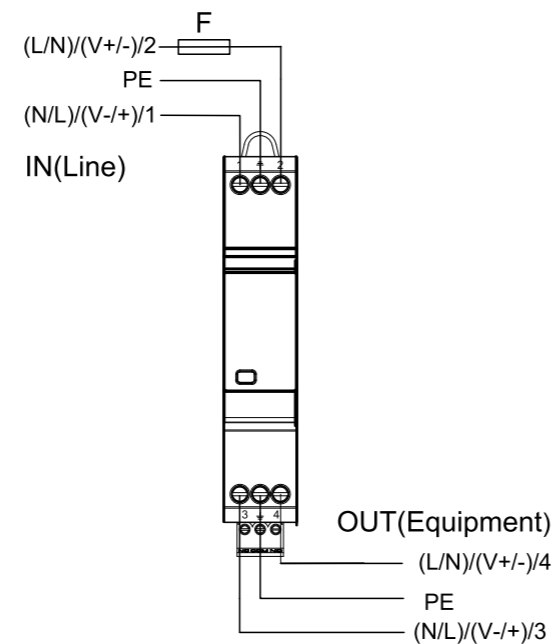
### Dimension drawing



### Circuit diagram



### Wiring diagram



### Electrical

Product model	YSPD-6HD3-255-R
SPD according to IEC 61643-1/11	Class III
SPD according to EN 61643-11	Type 3
SPD according to GB/T 18802.11	Class III
Number of ports	1
Technology	MOV&GDT
Nominal Voltage ( $U_N$ )	230 V
Max. continuous operating voltage ( $U_c$ )	255 Vac
Nominal discharge current (8/20 $\mu$ s) ( $I_n$ )	3 kA(1-2, 1/2-PE)
Combined impulse ( $U_{oc}$ )	6 kV(1-2, 1/2-PE)
Rated load current ( $I_L$ )	25 A
Voltage protection level ( $U_p$ )	1.25 kV(1-2), 1.50 kV(1/2-PE)
Response time ( $t_A$ )	$\leq 25$ ns(1-2), $\leq 100$ ns(1/2-PE)
Max. overcurrent protection	$\leq 25$ AgL/gG
Short-circuit withstand capability ( $I_{SCCR}$ )	6 kArms
Temporary overvoltage (TOV) ( $U_T$ )	337 V/5 s
TOV characteristic	Withstand

### Mechanical

Method of mounting	35 mm DIN rail
Enclosure dimensions (H×W×D)	90 mm x 18 mm x 66 mm
Cross-sectional area (max.)	4 mm <sup>2</sup> solid/2.5 mm <sup>2</sup> flexible
Cross-sectional area (min.)	0.5 mm <sup>2</sup> solid/flexible
Stripping length terminals	8 mm
Torque contacts	0.4 N*m

### Indication

Operating status/fault indication	Green / red
Type of remote signaling contact	Changeover contact
Switching capacity	Max(125 Vac / 1 A), Min(5 V / 1 mA)
Cross-sectional area for remote signaling terminals (max.)	1.5 mm <sup>2</sup>
Stripping length for remote signaling terminals	7 mm
Torque contacts for indication terminals	0.2 N*m

### Environmental

Location category	Indoor only
Operation temperature range ( $T_u$ )	-40 °C...+85 °C
Relative humidity	$\leq 95$ % (max 40 °C)
Operation altitude	$\leq 4$ km
Degree of protection	IP 20
Enclosure material	Thermoplastic, UL 94V-0
Product code	911166