

KRONE LSA-PLUS PROTECTOR



Provides ultimate assurance of system reliability for telecom and other signaling equipment which terminated on KRONE LSA-PLUS disconnection module

- ◆ 1 or 10 pair protection in a compact module
- ◆ Multi-stage protection offers additional safety
- ◆ Full range of voltage to suit any particular applications
- ◆ Quick and easy plug-in installation
- ◆ All mode protection(L-L, L-E)
- ◆ High surge rating and wide bandwidth
- ◆ Fail-safe current fuse design



1 or 10 pair protection in a compact module - The KDP series of protectors have 1 pair and 10 pair model. Users can use the KDP10, 10 pair model or any number of the single pair model, KDP1 or any combination of them which means it can be used as a building block in surge protection solution to suit your existing or future requirements.

Multi-stage protection offers additional safety - KDP series employed sophisticated hybrid circuitry which not only can discriminate the harmful transient overvoltage from the desire signals but also resulted in exceptional low let-through voltage. It also provides greater assurance of system uptime and lower service costs than the conventional gas discharge tube type protectors.

Full range of voltage to suit any particular applications - KDP series have a variety of voltage models to fulfill users' expectations. They can be used in telecommunications lines like xDSL, DDN, ISDN, PSTN, distributed industrial control networks and any other twisted pair signal line with

voltage operating from 5V to 200V.

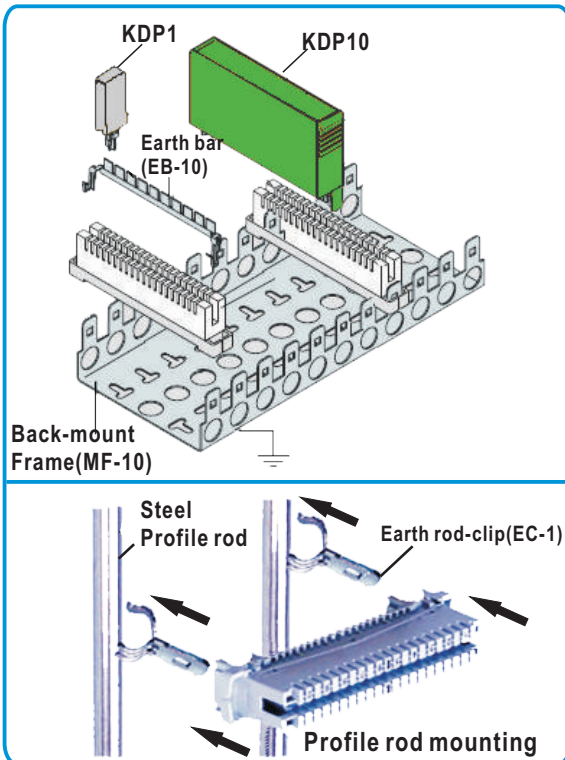
Quick and easy plug-in installation - The KDP series protectors can be easily plugged into the KRONE LSA-PLUS disconnection module and are earthed via the two earth tabs to the back-mount frame.

All mode protection(L-L, L-E) - It offers both line to line (transverse mode) and line to earth (common mode) protection so that the destructive transients will never be able to entering your system.

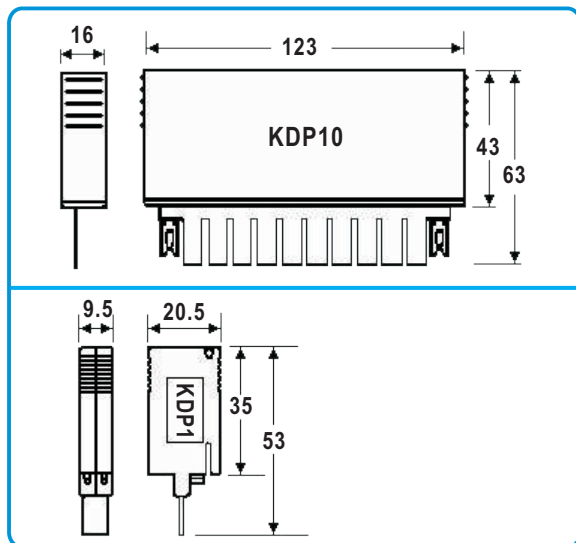
High surge rating and wide bandwidth - Its 20KA high surge rating and 20MHz wide bandwidth can provide the best protection and ensures a smooth data flow in high speed data and signal lines.

Fail-safe current fuse design - Should the surge exceeding the capacity of the primary gas arrester, service would be interrupted by blowing the track fuse and gives a fault condition.

Installation



Dimensions



Voltage range







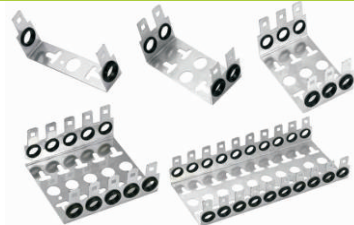

MODEL	MAX. WORKING VOLTAGE, (Uc)	VOLTAGE PROTECTION LEVEL, (Up)
KDP1-V5	7V	10V
KDP1-V12	17V	23V
KDP1-V24	34V	43V
KDP1-V48	68V	79V
KDP1-V130	180V	210V
KDP1-V200	280V	320V
KDP1-V130/1	180V	500V
KDP1-V200/1	280V	600V
KDP10-V5	7V	10V
KDP10-V12	17V	23V
KDP10-V24	34V	43V
KDP10-V48	68V	79V
KDP10-V130	180V	210V
KDP10-V200	280V	320V
KDP10-V130/1	180V	500V
KDP10-V200/1	280V	600V

General Specifications

SPD class(EN/IEC):	TYPE 2/Class II
Max. working voltage, Uc:	7-280V (see Voltage range)
Max. operating current, IL:	250mA
Protection modes:	common and transverse
Protection stages:	3 stages 1 stage (model with "/1" suffix)
Earth leakage current:	<5µA
Response time, ta:	<5ns
Max. discharge current, I _{max} :	20KA(8/20µs)-KDP10 5KA(8/20µs)-KDP1
Max. data rate:	20Mb/s
Insertion loss:	<1dB at 20MHz
Voltage protection level, Up: (At 5KV 10/700µs)	10 - 320V(see Voltage range)
Capacitance:	50pf
In line resistance:	3.9Ω ~0Ω (model with "/1" suffix)
Standards compliance:	BS EN/IEC 61643-21 AS1768-2007 Cat.A.B.C ITU(CCITT)1X K17 CP33-1996 Cat.A.B.C UL497B
Earth connection:	Via earth clips on two ends-KDP10 Via earth bar-KDP1
Case material:	Thermoplastic(UL 94 V-0)
Operating temperature, Tu:	-40-85°C
Humidity:	0-95%(R.H.)
Altitude:	0-3650m
Weight:	KDP1-X----All models 7g KDP1-X/1----All models 6.5g KDP10-X----All models 95g KDP10-X/1----All models 90g

ORDERING INFORMATION



MODEL	PRODUCT DESCRIPTION	PHOTO/DRAWING
KDP1-V5	Single pair, 7V, Krone LSA-PLUS disconnection module signal/data line protector	
KDP1-V12	Single pair, 17V, Krone LSA-PLUS disconnection module signal/data line protector	
KDP1-V24	Single pair, 34V, Krone LSA-PLUS disconnection module signal/data line protector	
KDP1-V48	Single pair, 68V, Krone LSA-PLUS disconnection module signal/data line protector	
KDP1-V130	Single pair, 180V, Krone LSA-PLUS disconnection module signal/data line protector	
KDP1-V200	Single pair, 280V, Krone LSA-PLUS disconnection module signal/data line protector	
KDP1-V130/1	Single pair, 180V, single stage protection, Krone LSA-PLUS disconnection module signal/data line protector	
KDP1-V200/1	Single pair, 280V, , single stage protection, Krone LSA-PLUS disconnection module signal/data line protector	
KDP10-V5	Ten pair, 7V, Krone LSA-PLUS disconnection module signal/data line protector	
KDP10-V12	Ten pair, 17V, Krone LSA-PLUS disconnection module signal/data line protector	
KDP10-V24	Ten pair, 34V, Krone LSA-PLUS disconnection module signal/data line protector	
KDP10-V48	Ten pair, 68V, Krone LSA-PLUS disconnection module signal/data line protector	
KDP10-V130	Ten pair, 180V, Krone LSA-PLUS disconnection module signal/data line protector	
KDP10-V200	Ten pair, 280V, Krone LSA-PLUS disconnection module signal/data line protector	
KDP10-V130/1	Ten pair, 180V, , single stage protection,, Krone LSA-PLUS disconnection module signal/data line protector	
KDP10-V200/1	Ten pair, 280V, , single stage protection, Krone LSA-PLUS disconnection module signal/data line protector	
EB-10	Earth Bar for every ten pieces of KDP1	
DB-10B	Krone Disconnection Module, 10-pair, for mounting on back mount frame	
DB-10R	Krone Disconnection Module, 10-pair, for mounting on steel rod	
EC-1	Earth clip, one pair, for mounting on steel profile rod, use with DB-8R/10R	
MF-1	Back-mount frame, one way, for holding one Krone disconnection module	
MF-2	Back-mount frame, two ways, for holding two Krone disconnection modules	
MF-5	Back-mount frame, five ways, for holding five Krone disconnection modules	
MF-10	Back-mount frame, ten ways, for holding ten Krone disconnection modules	
MF-X	ANY NUMBER OF WAYS ARE AVAILABLE ON REQUEST	
PT-18A	Punch down(insertion) tool for Krone IDC block and LSA-plus module	



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