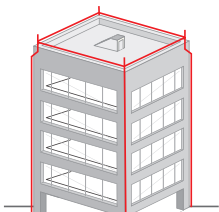
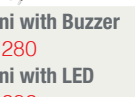


Selection Guide for Suitable Lightning and Surge Protection Devices in Residential and Commercial Buildings

Applications		Main Distribution Installation				Sub-distribution Installation		End-device Installs					
Lightning Protection Level I and II Building		Main Distribution Source or System Power Source				Distance to Main Distribution >10m		Distance to Main or Sub-distribution >10m					
Building Type		TYPE 1+2		ProTec T1S-275-3+1 59.0748		TN-S/TT	TYPE 2		ProTec T2-300-3+1 59.0121	TN-S/TT			
			ProTec T1S-275-3+1-R* 59.0749					ProTec T2-300-3+1-R* 59.0122					
			ProTec T1S-275-3+0 59.0742					ProTec T2-300-3+0 59.0093					
				ProTec T1S-275-3+0-R* 59.0743		TN-C			ProTec T2-300-3+0-R* 59.0094	TN-C		ProLED 275 (3+1)16A 130 304	TN-S/TT
Lightning Protection Level III and IV Building		TYPE 1+2		ProTec ZPN T1H-300-3+1 59.A608		TN-S/TT	TYPE 1+2		ProTec T1-300-3+1 59.0059	TN-S/TT			
	ProTec ZPN T1H-300-3+1-R* 59.A609			ProTec T1-300-3+1-R* 59.0060									
	ProTec ZPN T1H-300-3+1-F** 59.A610 (with Integrated Fuse)			ProTec T1-300-3+0 59.0031									
	ProTec ZPN T1H-300-3+1-R-F*** 59.A611 (with Integrated Fuse)		TN-C	ProTec T1-300-3+0-R* 59.0032	TN-C								
	ProTec ZPN T1H-300-3+0 59.A600												
	ProTec ZPN T1H-300-3+0-R* 59.A601												
	ProTec ZPN T1H-300-3+0-F** 59.A602 (with Integrated Fuse)		TN-C		TN-C								
	ProTec ZPN T1H-300-3+0-R-F*** 59.A603 (with Integrated Fuse)												
Building with Overhead Line Feed		TYPE 1+2		ProTec ZPN T1H-300-3+1-E 59.A612		TN-S/TT	TYPE 1+2		ProTec T1-300-3+1 59.0059	TN-S/TT			
	ProTec ZPN T1H-300-3+1-E-R* 59.A613			ProTec T1-300-3+1-R* 59.0060									
	ProTec ZPN T1H-300-3+1-E-F** 59.A614 (with Integrated Fuse)			ProTec T1-300-3+0 59.0031									
	ProTec ZPN T1H-300-3+1-E-R-F*** 59.A615 (with Integrated Fuse)		TN-C	ProTec T1-300-3+0-R* 59.0032	TN-C								
Building with no External Lightning Protection		TYPE 1+2		ProTec ZPN T1H-300-3+0-E 59.A604		TN-C	TYPE 2		ProTec T2-300-3+1 59.0121	TN-S/TT			
	ProTec ZPN T1H-300-3+0-E-R* 59.A605			ProTec T2-300-3+1-R* 59.0122									
	ProTec ZPN T1H-300-3+0-E-F** 59.A606 (with Integrated Fuse)			ProTec T2-300-3+0 59.0093									
	ProTec ZPN T1H-300-3+0-E-R-F*** 59.A607 (with Integrated Fuse)		TN-C	ProTec T2-300-3+0-R* 59.0094	TN-C								
							TYPE 2		ProTec T2-300-3+0-R* 59.0094	TN-C		MPE Mini with Buzzer 121 280	
									MPE Mini with LED 121 282				
										</			



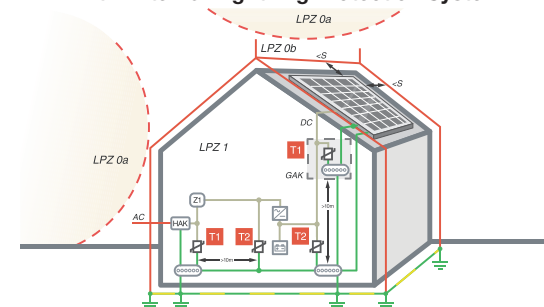
Selection Guide for Suitable Lightning and Surge Protection Devices in Residential and Commercial Buildings

Applications		AC Side		DC Side	
Buildings with Photovoltaic Systems	Building with External Lightning Protection	TYPE 1+2	 ProTec ZPN T1H-300-3+1 59.A608 ProTec ZPN T1H-300-3+1-R-F*** 59.A611 (with Integrated Fuse) ProTec ZPN T1H-300-3+0 59.A600 ProTec ZPN T1H-300-3+0-R-F*** 59.A603 (with Integrated Fuse)	 ProTec T1-1100PV-3+0 59.0285 ProTec T1-1100PV-3+0-R* 59.0286  ProTec T1-1500PV-3+0-S 59.0917 ProTec T1-1500PV-3+0-S-R* 59.0916	 Complete Solution ProTec T1-1100PV-3Y-2MC-Box 515 657 (1xMPP) ProTec T1-1100PV-5Y-2MC-Box 515 658 (2xMPP) ProTec T1-1500PV-3Y-S-2MC-Box 515 659 (1xMPP) ProTec T1-1500PV-5Y-S-2MC-Box 515 660 (2xMPP)
	Building with no External Lightning Protection		 ProTec ZPN T1H-300-3+1-E 59.A612 ProTec ZPN T1H-300-3+1-E-R-F*** 59.A615 (with Integrated Fuse) ProTec ZPN T1H-300-3+0-E 59.A604 ProTec ZPN T1H-300-3+0-E-R-F*** 59.A607 (with Integrated Fuse)	 ProTec T2-1100PV-3+0 59.0292 ProTec T2-1100PV-3+0-R* 59.0293  ProTec T2-1500PV-3+0 59.0295 ProTec T2-1500PV-3+0-R* 59.0296	 ProTec T2-1100PV-3Y-L-2MC-Box 515 654 (1xMPP) ProTec T2-1100PV-5Y-L-2MC-Box 515 653 (2xMPP) ProTec T2-1500PV-3Y-L-2MC-Box 515 656 (1xMPP) ProTec T2-1500PV-5Y-L-2MC-Box 515 655 (2xMPP)
			TN-S/TT TN-C	TYPE 1 TYPE 2	
			TN-S/TT TN-C	TYPE 1 TYPE 2	

Applications		Holistic Protection Products	
Additional Surge Protection Devices for Buildings	Telephone	RayTel 20 124 152	Signal Protection
	Data Interfaces	RayDat NET 6 POE 706 312	ADSL , ADSL2, ADSL2+, VDSL, VDSL2
	TV	RayCox IEC 48 125 093	Power Over Ethernet (PoE) Cat 6 Connection
	Satellite Antenna (SAT)	RayCox F 48 125 094	TV and Cable TV Connections (CATV)
	Smart Home	RayDat KNX 127 649	SAT Antenna with F Connector
	Motorized Window Shades	ProTec BLD T2-275 515 644	SPD with Terminal Connection for KNX/EIB Systems
			Protects the Motor of Windows Shades

Protection for Buildings with PV Systems

With External Lightning Protection System



With no External Lightning Protection System

