

Surge protection made easy – SPD selection aid

according to the IEC 60364-4-44 and IEC 60364-5-53

Customer Service: +49 23 73 89 - 17 00 | E-mail : export@obo.de | www.obo-bettermann.com

Application

Situation

1 Installation location: Main distributor
at the infeed point of the system

2 Installation location: Sub-distributor
with a spacing to the main distributor > 10 m

3 Installation location: Terminal
as close as possible to the resource to be protected

Alternatively



Residential buildings, multiple-occupancy dwellings, etc.



Without external lightning protection system with earth cable infeed (IEC 60364-5-53 and 60364-4-44)

TN/TT

V20-3+NPE-280
Item no. 5095253
V20-3+NPE+FS-280
Item no. 5095333

T2 T3



TN/TT

V20-LCF-3+1-280
Item no. 5095536

T2



leakage current-free

Alternatively

TN/TT

V10 Compact 2.0
Item no. 5093381



V10-1+NPE
Item no. 5093395



Buildings of lightning protection classes III and IV (e.g. housing and commercial and office buildings)



Exposed cable supply (according to IEC 60364-5-53 and 60364-4-44)



Earthed antenna structures (recommendation)



TN/TT

V50-3+NPE-280
Item no. 5093526
V50-3+NPE-280+FS
Item no. 5093533

T1 T2



TN/TT

MCF50-3+NPE+FS
Item no. 5096979

T1 T2



leakage current-free

Alternatively

TB/TT

V10 Compact 2.0
Item no. 5093381

T2 T3



TN/TT

V10-1+NPE
Item no. 5093395
(1 Phase)

T2 T3



V10 Compact-FS
Item no. 5093382

T2 T3



V10 Compact-AS
Item no. 5093391

T2 T3



Buildings of lightning protection classes I to IV (e.g. industrial buildings, computer centres or hospitals)



TT/TN-S

MCF-P-3+NPE+FS
Item no. 5096948

T1 T2 T3



TN-C

MCF-P-3+FS
Item no. 5096946



leakage current-free

Universal fine protection

FC-D
Item no. 5092800



3-way socket with audible error signalling
CNS 3-D-D
Item no. 5092701



Hat rail device with visual function display
VF230-AC/DC
Item no. 5097650



Surge protection module 45 with optical function display
ÜSS 45-O-RW
Item no. 6117473



with acoustic signalling
ÜSS 45-A-RW
Item no. 6117465



Device with acoustic signalling
ÜSM-A
Item no. 5092451



Device for installation behind sockets through simple attachment
ÜSM-ST-230-1P+PE
Item no. 5092441



ÜSM-A-2
Item no. 5092460

Protection device for 2 phases
ÜSM-10-23012P+PE
Item no. 5092426



Telecommunications			Data technology			TV, Video, SAT and Radio		
Situation	1 Installation location at the infeed point of the system	2 Installation location at the terminal	Situation	1 Installation location Server-side	2 Installation location on the switch in front of the end device	Situation	1 Installation location between BC transition point and booster	2 Installation location in front of every termina (TV / Video / HiFi)
<p>IP telephony</p>	<p>Tele Defender TD-2D-V Item no. 5081698</p>	<p>Tele Defender RJ11-TELE 4-F Item no. 5081977</p> <p>Net Defender Data cable protection device for high-speed networks CAT 6</p> <p>ND-CAT6/E-F Item no. 5081802</p>	<p>Networks Class EA/CAT 6A</p>	<p>Net Defender Data cable protection device for high-speed networks CAT 6A</p> <p>ND-CAT6/E-B Item no. 5081804</p> <p>Alternatively</p> <p>ND-CAT6/EA Item no. 5081802</p> <p>ND-CAT6/E-F Item no. 5081800</p>	<p>Net Defender Data cable protection device for high speed networks CAT 6 A</p> <p>ND-CAT6A/EA Item no. 5081800</p> <p>Net Defender Data cable protection device for high speed networks CAT 6</p> <p>ND-CAT6/E-F Item no. 5081802</p>	<p>Broadband (Cable TV)</p> <p>or</p> <p>Terrestrial receiver unit - analogue TV - DVB-T</p>	<p>Installation between LNB and receiver / multiswitch, directly on device to be protected</p> <p>Coaxial protection device DS-F M/W Item no. 5093275</p>	<p>FineController Fine protection device 230 V with surge protection for the TV/SAT supply of TV/SAT receivers, incl. adapter cable</p> <p>FC-SAT-D Item no. 5092816</p>
			<p>CCTV application</p> <p>Protection of IP-based CCTV systems, power supply via PoE/RJ45</p> <p>Net Defender Data cable protection device for high speed networks CAT 6 and PoE</p> <p>ND-CAT6/E-F Item no. 5081802</p> <p>Net Defender Data cable protection device for high-speed networks CAT 6 and PoE</p> <p>ND-CAT6/E-B Item no. 5081804</p>	<p>Protection of IP-based CCTV systems, power supply via PoE/RJ45</p> <p>Net Defender Outdoor data cable protection device for CAT 6 and PoE Input / output RJ45</p> <p>ND-IP66-RJ-RJ Item no. 5081807</p> <p>Net Defender Outdoor data cable protection device for CAT 6 and PoE Input LSA / output RJ45</p> <p>ND-IP66-RJ-LSA Item no. 5081808</p>	<p>Dara cable protection device for coaxial systems</p> <p>KOAX B-E2 MF-C Item no. 5082430</p> <p>Dara cable protection device for coaxial systems</p> <p>KOAX B-E2 MF-F Item no. 5082432</p>	<p>SAT receiver unit</p> <ul style="list-style-type: none"> - with receiver (e.g. in single family house) - with multiswitch - with multi-LNB (e.g. in apartment block) 	<p>Coaxial protection device DS-F W/W Item no. 5093272</p>	<p>Compact protection device (4x SAT, 1x terrestrial)</p> <p>TV 4+1 Item no. 5083400</p>