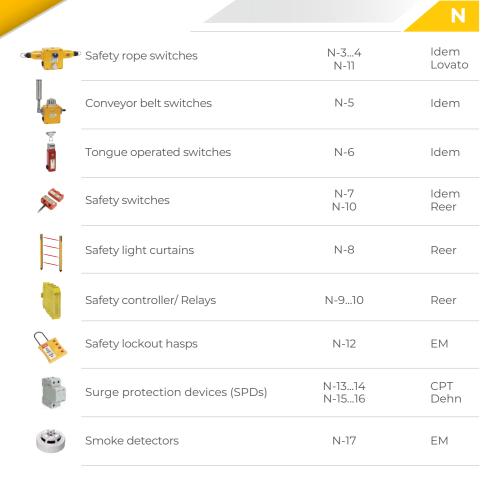
N SAFETY



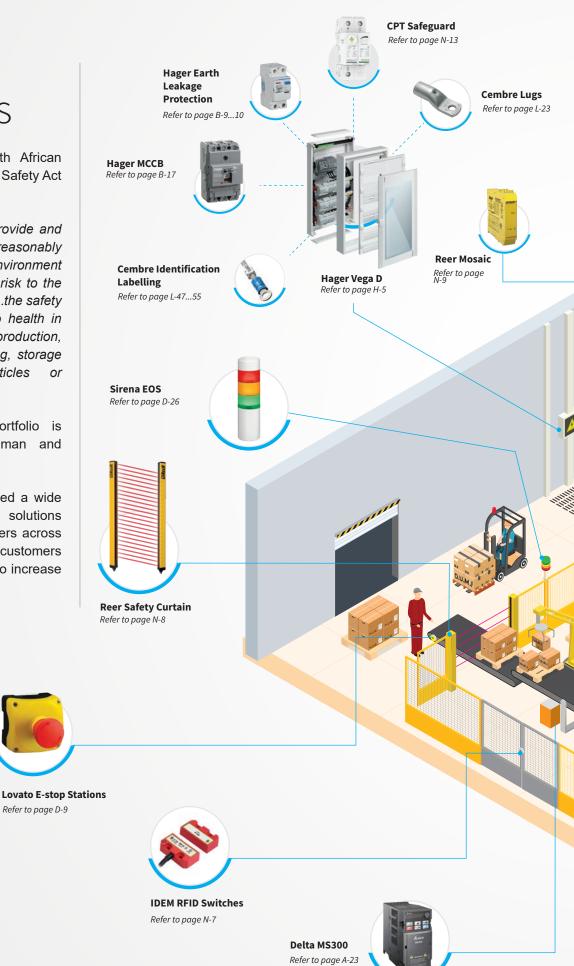
Safety Solutions

According to the South African Occupational Health and Safety Act No. 85, 1993,

"Every employer shall provide and maintain, as far as is reasonably practicable, a working environment that is safe and without risk to the health of his employees...the safety and absence of risks to health in connection with the production, processing, use, handling, storage or transport of articles or substances."

Our safety product portfolio is designed for both human and machine safety.

We have carefully sourced a wide range of products and solutions from leading manufacturers across the globe to provide our customers with reliable technology to increase safety and productivity.









Guardian line series - Safety rope switches

All IDEM safety rope emergency stop switches conform to **ISO13850** (EN418) and EN60947-5-5 standards. They provide positive mechanical linkage between switch contacts and the wire rope as per EN60947-5-1. Pre-tensioning the rope using a tensioner/gripper device, clamps the rope and hooks onto the switch eyebolt.

Correct tension is observed through the indicator window on the switch, once tensioned, switch contacts can be set to operational condition (safety contacts closed, auxiliary contacts open) by pressing the blue reset button on the switch cover.

All Safety rope switches incorporate wire-breakage monitoring, pulling or breakage of the rope, positively opens safety contacts closing auxiliary contacts, mechanically latching the switch which can only be returned to the operational condition by pressing blue reset button as required by ISO13850. ATEX versions available on request.

- Rugged die-cast metal body (painted yellow) or stainless steel 316
 The stainless steel 316
- Enclosure protection: IP67, IP69K (stainless steel versions)

Ambient temperature: -25...+80°C

• Typical operating force: <125N (<300 mm deflection)

Mechanical life: 1.000 000
Thermal current (lth): 10A
Rated insulation voltage: 500V

• Spare replacement lid: With or without LED (available on request)

• Standards: EN60947-5-1/-5-5, EN62061 (up to SIL3), UL508, ISO13850, ISO13849-1 (up to PLe)

type	contacts		mounting	max. protection length		LED	nrice
typo	NC	NO	position	1 switch	2 switches	indication	price



GLH series - Heavy duty safety rope switches

Heavy duty safety rope pull switch protect long conveyor lengths. Robust housings survive indoor or outdoor use including washdown (*IP67 rating*). Lengths over 2 km can be achieved with less than 20 switches, shorter rope spans up to 200m can be achieved using just one switch providing a cost effective solution.

Robust housings survive indoor and outdoor use, including washdown to IP67 and (IP69K on stainless steel versions only).

• Rope span (per switch): 100m (single head) - 200m (dual head)

Mounting / position: 4 x M5 / any position
 Cable/conduit entry: 4 x M20 cable entries

Note: Optional bi-colour LED indicates switch status from a distance Indication of rope status: Steady - Green = machine running Flashing - Red = machine stopped



141054..

GLH - Die-c	cast hou	sing		IP67			
141041 141029*	4 4	2 2	centre centre	200m 200m	250m 250m	•	5 252.22 6 336.70
141037 141053*	4 4	2 2	left left	100m 100m	125m 125m	•	2 955.60 3 347.76
141038 141054*	4 4	2 2	right right	100m 100m	125m 125m	•	2 955.60 3 347.76
GLH-SS - S	tainless	Steel 316	6 housing	IP69K			
GLH-SS - S 145025 145029*	Stainless 4 4	2 2 2	centre centre	IP69K 200m 200m	250m 250m	-	7 474.09 3 347.76
145025	4	2	centre	200m		- • -	

LED indication - provide voltage requirement by adding following to end of part number: **A** = 24 VDC / **B** = 110VAC / **C** = 230 VAC



Accessories - For rope operated switches

Accessories - Rope tensioner/gripper	(quick fixing) - for rope operated switches
--------------------------------------	---

type	description	length (mm)	material	price
------	-------------	-------------	----------	-------

Tensioning of the rope is achieved using IDEM's patented tensioner/gripper accessory. Traditional turnbuckle/clamp systems are difficult to tension and adjust, requiring frequent re-tensioning or maintenance, making viewing of the switch tension window difficult.

IDEMs tensioner/gripper accessory offers greater reliability, significantly reducing installation time by offering an eyehook, tensioner thimble and high strength gripper in one assembly, enabling rapid connection to the switch eyebolts with fast accurate tensioning of the rope while in close proximity to the viewing window of the switch.

907.38 1 416.85	galvanised stainless steel	190248 190248	tensioner/gripper for rope switches tensioner/gripper for rope switches		140020 140019
385.27	twist release	ushroom pushbutton	emergency-stop mu	red	140044
963.74	twist release	ushroom pushbutton	SS emergency-stop mu	red	140140





GLS series - Standard duty safety rope switches

Guardian Line – General / standard duty safety rope switch is suitable to protect conveyor lengths up to 80m using two switches or 60m using a single switch. An emergency stop button can be fitted on either side, offering a traditional emergency stop function on the switch.

An optional bi-colour LED is also available to indicate the switch status from a distance. Rugged internal sealing and a robust LED lens permits the use of high pressure hosing, suitable for indoor and outdoor use.

60m (single switch) - 80m (dual switch) • Rope span (per switch):

3 x M20 cable entries · Cable/conduit entry:

type	contacts		mounting	max. prote	ction length	description	LED	price	
type	NC	NO	position	1 switch	2 switches	indication			
GLS Die-ca	st housi	ng		(IP67)					
142052	2	2	left/right	60m	80m	rope switch	_	2 535.83	
142058*	2	2	left/right	60m	80m	rope switch	•	2 925.70	
GLS-SS Sta	inless s	teel 316	housing	(IP69K)					
144003	2	2	left/right	60m	80m	rope switch	_	4 807.16	
144009*	2	2	left/right	60m	80m	rope switch	•	5 391.37	
LED indication - provide voltage requirement by adding following to end of part number: A = 24 VDC / B = 110VAC / C = 230 VAC							ber:		

GLM series - Mini duty safety rope switches

Compact, robust die-cast safety rope pull switch to protect short conveyor lengths up to 50m using two switches or 30m using a single switch, providing a reliable, cost-effective safety solution for conveyor systems. An emergency stop button can be fitted to the side of the switch to offering a traditional emergency stop function close to the switch.

143001 left/right 50m 2 056.27 rope switch

Mounting accessories for rope operated switches

type	description	length (mm)	material	price
140020 140019 140021 140064 140045 140046 140099 140048 140047-S 140043 140165* 140059	rope tensioner/gripper for rope operated switches rope tensioner/gripper for rope operated switches universal pulley for rope operated switches universal pulley for rope operated switches standard eyebolt for rope operated switches (8 pack) standard eyebolt for rope operated switches (8 pack) roller eyebolt with nuts (non adjusting) roller eyebolt with nuts (adjustable) pigtail eyebolt (short) M10 46mm thread (1 /pack) safety spring for rope operated switches mounting brackets for rope op. switches (1 /pack) anti-tamper screwdriver for rope operated switches	190248 190248 77 mm 77 mm 84 mm 84 mm 71 mm 107-140 mm 114 mm 220 mm 127 mm T20	galvanised stainless steel stainless steel galvanised stainless steel galvanised die cast metal die cast metal stainless steel stainless steel	907.38 1 416.85 607.22 404.82 624.47 331.22 602.62 772.83 90.86 416.32 295.56 48.31
	and GLS series can be mounted using one bracket.		о.	40.0

4 pole

Steel cable (polypropylene covered) for rope operated switches

4.0 mm outside diameter. steel inner - polypropylene cover

140037	insulated steel cable for rope operated switches	30m	steel/PVC	929.23
140038	insulated steel cable for rope operated switches	50m	steel/PVC	1 282.30
140040	insulated steel cable for rope operated switches	100m	steel/PVC	2 225.32
140068	insulated steel cable for rope operated switches	500m	steel/PVC	7 531.59

Rope kits for rope operated switches

140063

Rope kits Rope kits comprise: tensioner/gripper assembly + allen key, quick link (up to 50m), length rope terminated one end and No. eyebolts required for length of rope

	type	length		description		eyebolts	gripper	price
	140004	20m	ro	pe kit for rope	operated switches	9	1 + QL	2 134.47
2	140005	30m	ro	pe kit for rope	operated switches	12	1 + QL	2 412.78
	140006	50m	ro	pe kit for rope	operated switches	20	1 + QL	2 877.40
	140007	80m	ro	pe kit for rope	operated switches	30	2	3 210.91
	140008	100m	ro	pe kit for rope	operated switches	37	2	3 485.76
	140009	126m	ro	pe kit for rope	operated switches	45	2	3 858.38
	E-stop an	d contact b	l ocks (s	pare) for rope	e operated switches			
	140044	emerger	ncy-stop	mushroom pu	shbutton	red	twist release	385.27
	140057	2	1	3 pole	contact block for ro	pe operated switch	end fixing	348.47
	140061	2	2	4 pole	contact block for ro	pe operated switch	side fixing	439.32
	140062	3	1	4 pole	contact block for ro	pe operated switch	side fixina	439.32

contact block for rope operated switch

439.32

side fixing



7 375 28











Conveyor belt alignment switches

Conveyor belt alignment switches are mounted on sections of plant conveyors to protect against excessive belt drift due to unintentional movement. Should the belt position drift, the roller arm of the switch will move to a pre-determined position causing activation of a control circuit providing positively opening NC safety contacts (to **EN60947-5-1**) at the point of tripping.

2 internal contact blocks, one to provide a "WARNING" signal the other to provide a "STOP" signal.

Rugged die-cast metal body (painted yellow) or Stainless Steel 316

Switching range: "Warning" signal 10...18°C (factory setting 14°C)

"Stop" signal 15...35°C (factory setting 25°C)

Operating torque: Medium duty 1.8Nm...2.8Nm (factory setting 1.8Nm)

Heavy duty 3.0Nm...5.0Nm (factory setting 3.0Nm)

• Enclosure protection: IP67 - IP69K (in stainless steel)

Ambient temperature: -25...+80°C
 Vibration resistance: 10-500Hz 0.35 mm
 Shock resistance: 11ms 15g
 Mechanical life: 150.000 operations

Thermal current (Ith):
 10A

LED indication: Available on request
 Standards: EN60947-5-1, EN620

• Spare replacement lid: With or without LED (available on request)

35 mm

type	contacts		roller din	nensions	factory settings duty		duty	price	
type	NC	NO	Ø	length	torque	warning	stop	duty	prioc

Python line series - Con	veyor belt alignment switches
Cable/conduit entry:	4 x M20 cable entries

Die-cast (painted yellow) housing

500001

	_	_	00 111111	120 111111	1.014111		200	modium	
500005	2	2	35 mm	230 mm	3.0Nm	14°C	25°C	heavy	7 546.54
Stainless s	steel 316	housing							
501001	2	2	35 mm	120 mm	1.8Nm	14°C	25°C	medium	9 524.60
501005	2	2	35 mm	230 mm	3 0Nm	14°C	25°C	heavy	10 456.13

1 8Nm

120 mm

HLM-CBA series - Mini belt alignment switches

- Heavy duty die cast bodies (painted red)
- High mechanical life over 500.000 cycles

• Standards: ISO14119, EN60947-5-1, EN60204-1, ISO13849-1, EN62061, UL508

174401	2	2	22 mm	70 mm	1.10Nm	plastic rolle r	2 999.30
174451	2	2	22 mm	70 mm	1.40Nm	stainless steel roller	3 677.82

Emergency stop stations

IDEM's emergency stop switches provide robust emergency stop protection for machines and exposed conveyors. They are suitable for use within all industry sectors.

- Yellow Polyester (IP67) or stainless steel 316 body (IP69K)
- · Safety trip mechanism opens safety contacts if lid removed extra degree of anti-tamper
- · Button protection shroud version with padlock holes to enable "Lock Off"
- 3 and 4 pole contact blocks provide positively operated switch contacts
- · ATEX versions available on request

Ambient temperature: -25...+80°C

Mechanical life: 1.500.000 operations

Thermal current (Ith): 10A

Cable/conduit entry: 2 x M20 (3-pole) / 3 x M20 (4-pole)

Standards: EN60947-5-1, EN60947-5-5, EN62061 UL508, ISO13850, ISO13849-1

Polyester housing (IP67)

230001	2	1	plastic (polyester) emergency stop station	608.37
230003	2	1	plastic (polyester) emergency stop station with button shroud	731.43
Stainless st	eel hou	sing	(IP69K)	
231001	2	1	stainless steel E-stop station	2 635.89
231005	2	1	SS E-stop station with button shroud	2 793.44
232019*	3	1	SS E-stop station with dual colour LED	3 429.41
232023*	2	2	SS E-stop station dual colour LED/button shroud	3 416.76
232025*	3	1	SS E-stop station dual colour LED/button shroud	3 586.97
232023-AS	2	2	SS E-stop station dual colour LED (steady)/button shroud	3 416.76

* Please provide voltage requirement by adding following to end of part number:

 $A = 24 \ VDC / B = 110 \ VAC / C = 230 \ VAC$









Tongue operated switches (connects to most safety relays)

IDEM tongue operated safety interlock switches fit to the leading edge of sliding, hinged or lift off machine guards to provide positively operated switching contacts and a tamper resistant (not easily defeatable) key mechanism. Used independently to provide positively operated contacts to EN60947-5-1 or in combination with any dual channel safety monitoring relays to provide up to category 4 PLe ISO13849-1.

The switch is mounted to the frame of the guard or machine, and the actuator profile is fitted to the moving part (*frame*) of the guard and aligned to match a cam mechanism within the switch entry aperture, providing a positively operated (*not easily defeatable*) interlock switch. Inserting the actuator into the switch closes the safety contacts enabling the machine start circuit. Withdrawing the actuator positively opens the safety contacts.

Positive break contacts to EN60947-5-1 High functional safety to ISO13849-1

- · Actuators for switches ordered separately (see accessories section below)
- Cable/conduit entry: 3 x M20 cable entries

type	No. entry	contacts		description dimensions (mm)	price
туро	positions	NC	NO	(H) (W) (D)	prioc

Type KP - Kobra tongue operated switches (non-locking)

KP and K-SS switches provide industry standard fixing points and a rotating head for up to 4 actuator entry positions. The double seal gasket and stainless steel internal screws reduce the likelihood of rust build up inside the switch. IDEMs patented CAM system ensures long term reliability, even under harsh environmental conditions.

Enclosure protection:

IP67 - rugged polyester body with stainless steel head

• Ambient temperature: -25...+80°C

Thermal current (Ith):
 10A

• Rated Ins/withstand voltage: 500 VAC/2500 VAC

• Standards: ISO14119, EN60947-5-1, EN60204-1, ISO13849-1, EN62061, UL508

200007-SS 4 3 1 tongue operated switches 98 58 34.5 **1 161.54**

Type K-SS stainless steel tongue operated switches

Enclosure protection: IP69K - rugged stainless steel 316 body

208007 4 3 1 SS tongue operated switches 98 58 37.5 **2 539.28**

KLM series - Guard locking switch (Metal)

Solenoid locking interlock safety switch featuring Guard Holding up to 3000N (300Kg) (F1Max)

KLM guard locking safety switches have rugged die cast housings with a high holding force of 3000N to keep medium/large guard doors closed until hazards are removed. The slim profile is designed to fit on 50 mm frame sections or where space is restricted. The head rotates providing up to 8 actuator entry positions. 2 independent contact blocks individually monitor lock and door status.

Internal switch selectable for power feed to LED or as a voltage free auxiliary circuit to indicate lock status.

Enclosure protection: IP67 - Rugged polyester body with stainless steel head
 Soleniod supply voltage: 24 VAC/DC or 230 VAC (available in 110 VAC on request)

• Ambient temperature: -25...+50°C

Thermal current (Ith):

10A

• Rated Ins/withstand voltage: 500 VAC/2500 VAC

Manual release:
 1 manual release

202001-SS 8 3 1 locking interlock safety switches 24 VDC 176 46 47 **4 304.59 202007-SS** 8 3 1 locking interlock safety switches 230 VAC 176 46 47 **4 382.79**

KL3-SS series - Stainless steel tongue operated switches

In accordance with EHEDG (European Hygienic Engineering & Design Group) guidelines for hygienic design, mirror-polished surface to Ra10 designed to cope with direct food splash and cleaning in tough applications of food processing industries.

IP69K enclosure protection permits high pressure hosing with detergent at high temperature.

• Enclosure protection: IP69K – Mirror polished 316 stainless steel

205001	8	3	1	locking interlock safety switches	24 VDC	177	48	47	8 208.96
205007	8	3	1	locking interlock safety switches	230 VAC	177	48	47	8 305.56

Accessories for above tongue operated switches

140123 140107	– standard	manual release key <i>(front and side)</i> for standard actuator only	KLM and KL3-SS all tongue switches	276.01 127.66
140108	flat	flat actuator only	all tongue switches	127.66
140110	flexible	die-cast heavy duty flexible actuator only	all tongue switches	457.72
140111	flexible	stainless steel heavy duty flexible actuator only	all tongue switches	914.28













HC122505

RFID coded non-contact safety switches 24 VDC SIL 3 - SILCL 3 - PLe - Cat. 4

RFID non-contact safety sensors provide highly-reliable, tamper-proof personnel protection for monitoring protective doors, gates and guards, they uniquely identify passive RFID transponders ensuring high coding levels and effective protection.

Master coded: The actuator is free and not specifically assigned to the sensor Factory programmed and permanently assigned to sensor during set-up Unique coding:

• Output: 2 NC safety outputs and 1 NO auxiliary output

M12 connector - (Pigtail M12/8-pin - 250 mm), see page K-23/24

High EMC immunity and IP67/IP69K protection ensure excellent reliability in harsh environments.

Resistar	nt to aggres	sive media,	e.g. cleanir	ng agents used in the food and pa	ckaging	industry	/	
type	model	sensing distance	circuits	description	dime (H)	nsions (W)	(mm) (D)	price
RFID safe	ety switch	es s	supplied as	sensor/actuator combination				
SPF - uni	versal (22	mm fixing c	entres)					
405104	SPF	14 mm	2NC/1NC	RFID coded safety switch	50	25	13	2 640.49
LPF - Eur	opean ind	ustry standa	ard fitting (78 mm fixing centres)				
404104	LPF	14 mm	2NC/1NC	RFID coded safety switch	88	25	13	2 688.79
Coded no	on contact	t safety sw	itches	24 VDC				
		ntact safety 2100, ISO14		enable conformance to EN60947 N60204-1 .	-5-3 to b	e used		
misalignm	ent after s	ensing. Use	d in combi	ng a wide sensing distance and nation with most dual channel sa _e to ISO13849-1 .				
Visual LCoded n	ED switch s nagnetic op		tion <i>(on cod</i> mper resist	yester housing ded version only) ant.				
MPC - Mi	niature ind	ustry standa	ard (22 mn	n fixing centres)				
114104	MPC	14 mm	2 NC	compact coded safety switches	36	26	13	2 688.79
LPC - Eur	ropean ind	ustry standa	ard fitting (78 mm fixing centres)				
110004	LPC	14 mm	2 NC	rectangular coded safety switches	88	25	13	1 863.06
Magnetic	non-cont	act switch	es (non co	ded) Up to: PLe ISO13849-	1			
be used a	s directed	by ISO1210	0, ÍSO141	cks are designed to conform to I 21 and ISO14119 . They feature risalignment and extreme temper	magnet a			
MPR - Mi	niature ind	ustry standa	ard (22 mn	n fixing centres)				
114004	MPR	12 mm	2 NC	compact magnetic switches	36	26	13	1 635.36
LPR - Eu	ropean ind	ustry stand	ard fitting (78 mm fixing centres)				
110012 Normally	LPR closed (NC)	12 mm	2 NC closed with	rectangular magnetic switches at the actuator is present.	88	25	13	2 178.17
Safety lin	nit switch	es (die-cast	t metal boo	lv)				
		sensing		*	dime	nsions	(mm)	
type	model	distance	circuits	description	(H)	(W)	(D)	price
172007	LSMM	12 mm	2NC/1NC	roller plunger limit switch	73	35	14	801.58
EM - Pan	el door lin	nit switch	6A 240 VA	C IP20				
system if d		ed or to activ	-	es opening or closing as a safety mrnal panel light for illumination of th				
	configurations:		(H) 59 x	C contact (NC contact with positiv (W) 28 x (D) 24.4 mm (including pl rdant material used for mechanica	unger)		fety	
type	curren Ith	nt	а	ctuator	desc	ription		price
MLASS3A	.5 6A		rounded	metal plunger p	anel doo	r limit s	witch	127.66
110400505				, J				40.04

terminal protection cover for above panel door limit switch





EOS series - Safety light curtains

With its compact, robust housing **EOS** series is ideal for the protection of any machine tool, in particular where space restrictions exist. Its zero-dead-zone on one side, allows EOS to keep its original resolution when installed on a plane and up to 40 mm when installed at 90° against another EOS unit. The hardware configuration feature does not require any programming allowing easy installation and replacement.

•	Power supply:	24 VDC ± 20%
•	Dimensions:	(W) 28 x (D) 30 mm

Restart: Selectable manual/automatic Start/Restart
 Status display: LEDs for light curtain's status and diagnostic

Integrated function: Integrated External Device Monitoring (EDM) function
 Mounting: Via back slot with provided standard mounting brackets

Connection: Emitter: M12 5-pin - Receiver: M12 8-pin (see pages K-23 / 24)
 OSSD safety outputs: 2 PNP - 400 mA at 24 VDC with short-circuit, overload, polarity reversal protection

protected. No guerall connection



type	resolution	protected height	No. beams	description	overall height	connection type	price
For finger a	nd hand pr	rotection - S	Safety ligh	t curtains		IP65/67	
				ntrol functions - Type 2			
Detection:Safety Lev	Hand pro	otection (30 n	nm resolut	ion) • Maximum range:	Selectab	le 4/12 meter	
1321200	30 mm	260 mm	13	safety light curtain	313 mm	M12 plug	8 655.18
1320211	30 mm	310 mm	16	safety light curtain	363 mm	M12 plug	9 193.39
1320212	30 mm	460 mm	23	safety light curtain	513 mm	M12 plug	10 809.19
1320213	30 mm	610 mm	31	safety light curtain	663 mm	M12 plug	12 431.89
1320214 1320215	30 mm 30 mm	760 mm 910 mm	38 46	safety light curtain safety light curtain	813 mm 963 mm	M12 plug	14 294.95 16 158.01
1320216	30 mm	1060 mm	53	safety light curtain	1113 mm	M12 plug M12 plug	17 733.56
				introl functions - Type 4		3	
Detection:Safety Leve	Finger pr	otection (14 r	nm resolut	tion) • Maximum range:	Selectab	le 3/6 meter	
1310010	14 mm	160 mm	15	safety light curtain	213 mm	M12 plug	13 179.42
1310011	14 mm	310 mm	30	safety light curtain	363 mm	M12 plug	17 112.54
1310012	14 mm	460 mm	45	safety light curtain	513 mm	M12 plug	20 953.66
1310013	14 mm	610 mm	60	safety light curtain	663 mm	M12 plug	24 783.28
1310014	14 mm	760 mm	75	safety light curtain	813 mm	M12 plug	28 762.41
1310015	14 mm	910 mm	90	safety light curtain	963 mm	M12 plug	32 592.03
Detection:Safety Leve		tection (<i>30 mr</i> SIL 3/SILCL 3			Selectab	le 4/12 meter	
1310211	30 mm	310 mm	16	safety light curtain	363 mm	M12 plug	10 933.40
1310212	30 mm	460 mm	23	safety light curtain	513 mm	M12 plug	12 788.41
1310213	30 mm	610 mm	31	safety light curtain	663 mm	M12 plug	14 628.46
1310214	30 mm	760 mm	38	safety light curtain	813 mm	M12 plug	16 756.03
1310215	30 mm	910 mm	46	safety light curtain	963 mm	M12 plug	18 883.60
1310216	30 mm	1060 mm	53	safety light curtain	1113 mm	M12 plug	21 022.66
1310217 Note: Height	30 mm s (un to 2 2 i	1210 mm meters) and e	61 extended n	safety light curtain ange up to 20 meters ava	1263 mm ailable on red	M12 plug	23 150.23
-		•		Safety light curtains		IP65/67	
Detection:		otection / Acce		· ·	Selectah	le 4/12 meter	
				entrol functions - Type 2	Ociccian	10 4/ 12 IIICICI	
	alety light c			• •	050	N440 I	
1320610 1320611	_	510	2	safety light curtain safety light curtain	653 mm	M12 plug	8 572.37
1320611	_	810 910	3 4	safety light curtain	953 mm 1053 mm	M12 plug M12 plug	9 856.96 10 974.80
	afety light o			entrol functions - Type 4	1000 111111	W12 plug	10 37 4.00
1310610	_	510	2	safety light curtain	653 mm	M12 plug	9 441.80
1310611	_	810	3	safety light curtain	953 mm	M12 plug	11 181.81
1310612	-	910	4	safety light curtain	1053 mm	M12 plug	12 466.40
Mounting ad	ccessories 1	for safety lig	ht curtair	ns (std L-shaped brackets	s included wit	h light curtains)	
1310980	SFB E180	brackets		set of (4) x 180° swivel b	rackets for	EOS2/4	930.38
1310997	FE 4	brackets		set of (4) flat b		EOS2/4	639.43
1310973	SAV 8E	dampers		set of (8) vibration d	ampers for	EOS2/4	581.92
Safegate - S	Safety light	curtain (typ	e 4) with	integrated muting funct	ions		
Safegate safe	ety light curta	ains is the ide	al solution	n for the protection of a va	ast number o	f high-risk	

industrial applications, in particular those requiring a highlevel of integration of the muting functions.

POR











Mosaic - A unique safety controller: Modular, Expandable, Configurable

Mosaic is a modular configurable safety controller capable of managing all safety functions of machinery or plants. Made up of a Master unit which can operate as a stand-alone device or control up to 14 expansion units in a system.

Capable of monitoring several safety sensors and signals such as: light curtains - photocells - laser scanners - emergency stops - electromechanical switches - safety door switches - magnetic switches - safety mats and edges - two-hand controls - hand grip switches - encoders and proximities for safety speed control - load cells - pressure switches - temperature, flow and level measurements.

Power supply: 24V DC ± 20%

· Safety level: SIL 3, PL e, SILCL 3, Cat. 4 Connections: Removable (screw terminal) blocks

Mounting: DIN rail mounting according to EN 50022-35 standard

 Dimensions: (H) 99 x (W) 22.5 x (D) 114 mm

Advantages

- Tamper-proof system configuration
- Reduced control panel dimension, design and construction time
- Logic configured via graphic interface, eliminating laborious wiring as with traditional solutions
- Simulation function allows to validate system functionality without connecting to a machine

			Start /	OSSD			
type	model	digital	Restart	safety	status	description	price
		inputs	inputs	outputs	outputs		

Mosaic master units

Master units can operate as stand-alone device or expanded with additional I/O modules.

M1 - Standard master unit

- 2 pairs SIL 3 OSSD safety outputs (PNP 400 mA)
- 2 inputs for Start/Restart interlock and external device monitoring (EDM)
- 2 programmable digital status outputs (PNP 100 mA)
- 4 test outputs (for sensor monitoring)

1100000 M1 2 6 621.91 2 pairs standard master controller

M1S - Enhanced master unit

- 4 single SIL 3 OSSD or (2 pairs) safety outputs (PNP 400 mA)
- 4 inputs for Start/Restart interlock and external device monitoring (EDM)
- 4 programmable digital status outputs (PNP 100 mA)
- 4 test outputs (for sensor monitoring)

1100003	M1S	8	4	4 or (2 pairs)	4	enhanced master controller	8 277.96
1100005	MZERO	16	4	4 or (2 pairs)	4	standalone safety controller	11 440.56
1100006*	M1SCOM	8	4	4 or (2 pairs)	4	master controller builtin comms	13 317.42
- Duild in I	Ethornot ID M	ladhus TCI	D EthorC	AT and Profinct			

Build in Ethernet IP, Modbus TCP, EtherCAT, and Profinet

Accessories for M1/M1S/COM master units

1100060	MCM	memory card to store or duplicate master unit configuration as a backup	662.43
1100061	MSC	rear bus connector required to connect to any expansion module	276.01
1100062	USB	USB configuration cable (A–mini B, length 1.8 m)	325.47

Mosaic - Expansion modules

Communication

Input/outpu	ıt expansion	modules	provides additional digital inputs and outputs to the master unit	
1100010 1100011* 1100021 1100025*	MI8O2 MI8O4 MI16 MA4	4x single	SIL 3 OSSD safety outputs, 8x digital inputs, 2x status outputs SIL 3 OSSD safety outputs, 8x digital inputs, 4x status outputs 16x digital inputs and 4x test outputs (for sensor monitoring) c 4-20mA (or 0-10V) analogue inputs (for analogue sensors)	5 463.83 6 290.70 5 243.02 14 352.45
* Only con	patible with I	M1S and M1S	COM enhanced Master unit.	
1100031 1100032	MO4 MO4LHC	4x single hi	4x pairs SIL 3 OSSD safety outputs, 4x status output gh current SIL 3 OSSD safety outputs (2A), 8x status output	5 959.49 6 621.91

1100032	MO4LHC	4x single high current SIL 3 OSSD safety outputs (2A), 8x status output	6 621.91
Status outputs		provides additional non-safety outputs to the master unit	
1100092	MOS16	16x programmable digital (non-safety) signal outputs	4 635.80
Safety relays		provides safety relay outputs with guided contacts	
1100041 1100043	MR4 MOR4S8	4x safety relay outputs with guided contacts (6A 250 VAC) 4x configurable safety relay outputs with guided contacts	3 766.37 6 621.91

for connection to the most common industrial Field-bus systems

1100050	MBP	Profibus DP	module for diagnostics and data communication
1100051	MBD	DeviceNET	module for diagnostics and data communication
1100052	MBC	CANopen	module for diagnostics and data communication
1100054	MBEI	EtherNET IP	module for diagnostics and data communication
1100082	MBMR	Modbus RTU	module for diagnostics and data communication

7 661.54 7 661.54 7 661.54 6 069.90 7 661.54

162.16





Safety interfaces and relays

RFID safety switches

Power supply: 24 VDC ± 20%
 Electrical connection: On terminal block

Mounting: DIN rail mounting according to EN 50022-35 standard

oofot.

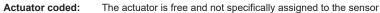
• Dimensions: Relays - (H) 101 x (W) 35 x (D) 120 mm

Interfaces - (H) 99 x (W) 22.5 (35 mm - ADSRM) x (D) 114 mm

type	model	no. of inputs	safety inputs	safety outputs	status outputs	description	price
Safety in	terfaces and	l relays					
Safety int	erface for em	ergency	stop butto	ns and safety	switches	PL e - Cat. 4	
1330913 1330914	ADSRE4 ADSRE4C	1 1	2 of 1 2 or 1	3NO+1NC 3NO+1NC	- -	auto / manual start restart manual start restart	3 136.15 3 136.15
Safety int	erface for sa	fety light	curtains		Type 4 - S	IL 3 - SILCL 3 - PL e - Cat. 4	
1330904 1330902 1330903	ADSRM ADSRO ADSR0A	6 - -	4 2 2	2NO 2NO+1NC 2NO	2 1 1	muting safety light curtain relay module for EOSX relay module for EOSX	5 059.01 1 961.97 1 480.10
Safety spe	ed monitoring	g interface	(H) 108 x ((W) 22.5 x (D) 11	4.5 mm	SIL 3 - SILCL 3 - PL e - Cat. 4	
1100078 1100088	SVMRO SVMROU	2 2	2 2	2NO 2NO	2 2	over/zerospeed detection underspeed detection	7 987.01 7 987.01
Safety int	erface for tw	o-hand co	ntrol		PL 6	e - Cat. 4 Type III C (EN574)	
1330915	ADSRT	1	2	2NO+1NC	-	two hand contol	3 550.17

SIL 3 - SILCL 3 - PL e - Cat. 4

Magnus RFID non-contact safety sensors provide highly-reliable, tamper-proof personnel protection for monitoring protective doors, gates and guards. It uniquely identifies passive RFID transponders ensuring high coding levels and effective protection against manipulation with easy installation and safety system integration to PL e/SIL 3. Sensors can be individually coded in two different ways for appropriate tampering protection in all applications.



(one actuator can work with multiple sensors)

24 VDC

Individual coding: Programmed via teach-in and permanently assigned to sensor during set-up

(the process can be repeated up to 8 times if necessary)

Indication: LED status indicators for fast diagnostics

Output: 2 safety inputs and outputs and 1 diagnostic output
 Connection type: M12 connector - (Pigtail M12/8-pin - 150 mm)
 Mounting: S - inter-axis 22 mm

• Tampering protection in accordance with DIN EN 14119, the highest in its class

Can be installed individually or in series with up to 30 units (accessories required)

· High EMC immunity and IP67 protection ensure excellent reliability in harsh environments

· Resistant to aggressive media, e.g. cleaning agents used in the food and packaging industry

type	di	sensing stance (mn	description	dimensions (mm) (H) (W) (D)			price
RFID safe	ety switches	su	pplied as sensor/actuator combination				
1292000 1292010	CSCAM CSIAM	8 18 8 18	S actuator coding RFID safety switch S individual coding RFID safety switch	26 26	36 36	13 13	3 066.00 3 868.73
Accessor	ries						

1292401 SPS spacers for S series (recommended for mounting on metal surfaces) Magnetic safety switches 24 VDC

- Compact and robust thermoplastic enclosure (PBT)
- Coded magnetic operation Tamper resistant
- Sensor with M8/4pin connector: 2 NO contacts
- · Connected to Mosaic safety controller provides a certified PL e safety system

				-			
1291000 1291001	MGS20 MGSM	310 310	MGS compact magnetic safety switches MGS magnet unit for above switches	36 36	13 13	26 26	726.83 242.66
1291010 1291011	MGB20 MGBM	416 416	MGB rectangular mag. safety switches MGB magnet unit for above switches	88 88	25 25	14 14	678.53 194.36



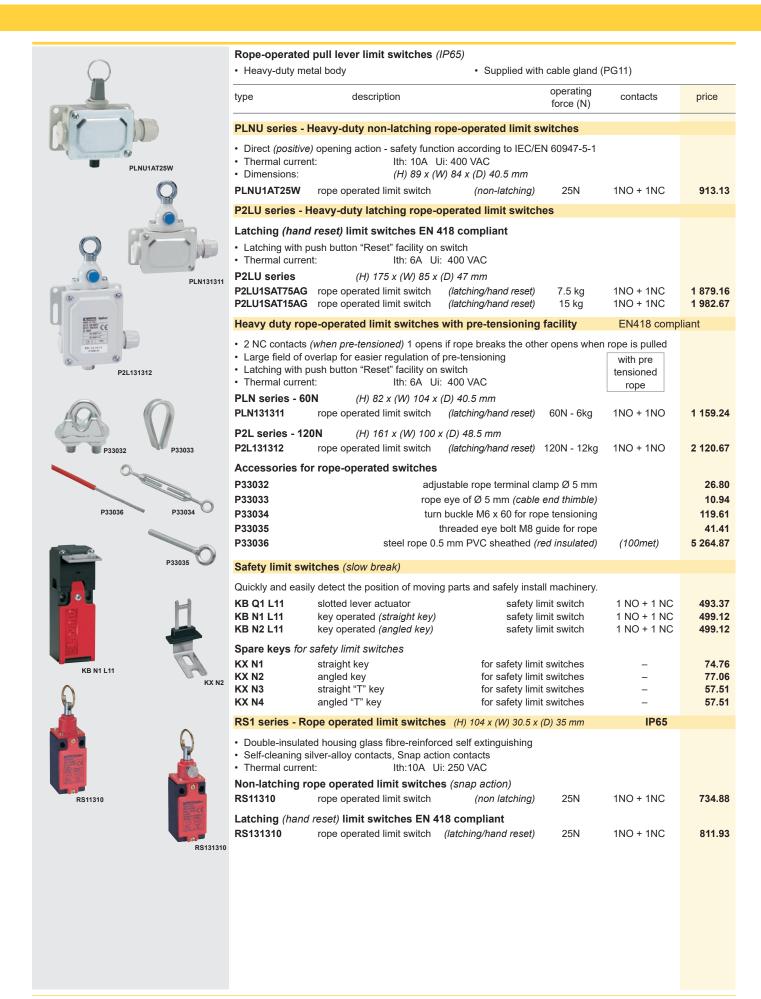
















Safety lockout hasps

Safety lockout hasps permit multiple padlocks to be used when isolating one energy source. The lockout hasp is placed through the isolating point and closed.

Each person carrying out maintenance or service attaches their unique individually keyed padlock through the lockout hasp, thereby ensuring complete safety during maintenance operations. The hasp can only be removed once all padlocks have been removed.

General features:

- Scissor action hasp with $\emptyset 25~\text{mm}$ or 38 mm jaw size
- Accepts padlocks with a shackle diameter up to 9 mm (up to 6 padlocks can be attached)
- Manufactured from high tensile steel, electroplated to prevent rust

type	jaw size	colour	number of padlocks accepted	description	price			
Vinyl coated ha	asp							
Padlock section	n vinyl coated (re	ed) for improved	l grip and visibili	ity				
ES-VCH-S	25 mm	red	6	safety lockout hasp	134.00			
ES-VCH-P	38 mm	red	6	safety lockout hasp	157.00			
Lockout padlo	cks							
Maximum security laminated padlocks made for tough lockout situations. Increased durability against cutting, prying and twisting Supplied with two keys per lock ES-PLS-KD padlock long shackle - different keys								
Electric slider	hasp							
	rd nylon /ABS - hi d for electrical pa 3 mm <i>(shaci</i>	nels MCCB's, n	notor protection 4	circuit breakers slider hasp	140.00			
Heavy Duty ha	sp (316	Stainless steel	")					
 Marine grade 316 stainless steel Fits most switchgear For use in corrosive environments and mines 								











Example: Electric slider / Heavy Duty hasp

3 mm (shackle)

red

ES-HDH-7H



SM1P006 + ES-DESH-43



heavy duty hasp

350.00













Modular plug-in surge protection devices (SANS/IEC 61643-11)

For the protection of low voltage equipment against transient voltages and current surges from atmospheric origins (*lightning*) as well as transients produced by switching characteristics such as in switching of distribution networks, transformers, motors, etc.

- Provides protection for even most sensitive equipment (IEC 60634-4-443 category-1)
- Clear lifetime indication (on front face) and optional remote (IR) end of life signalling contact
- Meets all current international standards (IEC 61643 / IEC 62305, etc.)
- · Plug-in cartridges for quick and easy replacement of damaged cartridges
- · Suitable for all types of applications: residential, commercial and industrial

	(8/20 µs)	max.	voltage			with		
type	L-N	volts L-N	protection	poles	config.	signal	width in	price
	(Imax)	(Uc)	(Up)			contact	18 mm	

Type 2 / Class II surge protection devices

Ability to discharge induced voltage surges (8/20 µs). Suitable for second level protection in supply distribution panels in which Type 1 protectors are installed, or first level of protection for applications not exposed to direct strikes and with no external lightning protection system. IEC 61643-11.

- High discharge capacity tested with an 8/20 µs waveform: 20kA or 40 kA per phase
- Provides protection for most sensitive equipment (IEC 60634-4-443 category 1)

Provides protection for most sensitive equipment (IEC 60634-4-443 category 1)										
Imax 20kA (8/20µs)										
PSM1-20/230	20 kA	320 V	≤ 1.4 kV	1	1ph	_	1	511.77		
PSM1-20N	20 kA	265 V	≤ 1.5 kV	1	N	_	1	578.47		
PSM2-20/230 TT	20 kA	320 V	≤ 1.4 kV	2	1ph+N	_	2	918.88		
PSM2-20/230 TTIR	20 kA	320 V	≤ 1.4 kV	2	1ph+N	signal	2	1 326.00		
PSM4-20/400 TT	20 kA	320 V	≤ 1.4 kV	4	3ph+N	_	4	1 722.76		
PSM4-20/400 TTIR	20 kA	320 V	≤ 1.4 kV	4	3ph+N	signal	4	2 531.23		
lmax 40kA (8/20µs)										
PSM1-40/230	40 kA	275 V	≤ 1.3 kV	1	1ph	_	1	596.87		
PSM1-40N	40 kA	265 V	≤ 1.5 kV	1	N	-	1	777.43		
PSM2-40/230 TT	40 kA	275 V	≤ 1.3 kV	2	1ph+N	_	2	1 319.10		
PSM2-40/230 TTIR	40 kA	275 V	≤ 1.3 kV	2	1ph+N	signal	2	1 672.16		
PSM4-40/400 TT	40 kA	275 V	≤ 1.3 kV	4	3ph+N	_	4	2 093.07		
PSM4-40/400 TTIR	40 kA	275 V	≤ 1.3 kV	4	3ph+N	signal	4	3 075.20		

Class 2 surge protection devices for higher voltage applications (500 - 690V)

• Rated varistor voltage Uc = 750 VAC / Imax 30kA (8/20µs) Un 690 VAC

PSM1-30/750	30 kA	750 V	≤ 3.0 kV	1	1ph	_	1	880.93
PSM1-30/750 IR	30 kA	750 V	≤ 3.0 kV	1	1ph	signal	1	998.24
PSM3-30/750 TNC	30 kA	750 V	≤ 3.0 kV	3	3ph	_	1	2 250.63
PSM3-30/750 TNCIR	30 kA	750 V	≤ 3.0 kV	3	3ph	signal	1	2 933.75

Spare replacement plug-in cartridges for Type 2 surge arrestors

		•	<i>-</i> .	•		
PSM-20/230	20 kA	320 V	< 1.4 kV	_	PSM1/2/4-20 phase	425.52
PSM-40/230	40 kA	275 V	< 1.3 kV	-	PSM1/2/4-40 phase	435.87
PSM-30/750	30 kA	750 V	< 3.0 kV	-	PSM1/3-30 phase	652.08
PSM-20N	20 kA	255 V	< 1.5 kV	_	PSM1/2/4-20 neutral	479.57
PSM-40N	40 k∆	255 V	< 15 k\/	_	PSM1/2/4-40 neutral	645 18

PSM SAFEGROUND

DIN - rail device for monitoring the earthing system from within the actual surge protection device. SAFEGROUND technology is based on the loop impedance monitoring sending current pulses to check the status of the grounding system and provide information regarding the proper wiring of the device and the existence of an adequate path to ground for the SPD itself to protect effectively.

- · Confirms the device is properly installed and how effective the surge protection is
- Indication of the status of the earth loop via multi-state LEDs
- High discharge capacity with an 8/20 µs waveform. Imax: 40 kA

Indication:

- Green: Correct earth connection
- Yellow: Poor earth connection
- Red: No earth connection

PSM2-40/230 SG	40 kA	275 V	≤ 1.3 kV	2	1ph+N	_	2	3 340.86
PSM4-40/400 SG	40 kA	275 V	≤ 1.3 kV	4	3ph+N	_	4	4 303.44







Type 1+2 / Class I+II lightning current and surge arrestor (combined in a single device)

Suitable for first level protection of incoming power supply panels in areas with greater exposure to lightning. For installations usually provided with external lightning protection systems. Able to discharge lightning currents (10/350 µs) and induced voltage surges (8/20 µs) IEC 61643-11

- Capable of protecting equipment from direct lightning strikes
- Discharges impulse currents with a 10/350 µs waveform. limp: 12.5 kA or 25 kA per phase
- · Clear lifetime indication (on front face) and optional remote (IR) end of life signalling contact
- Provides protection for most sensitive equipment (IEC 60634-4-443 category 1)

type	10/350 µs L-N (limp)	(8/20 μs) L-N (Imax)	max. volts L-N (Uc)	voltage protection (Up)	poles	config.	width in 18 mm	price		
Type 1+2 / Class I+II	lightning o	current and	d surge ar	restor (com	bined in	a single	device)			
limp (10/350) 12.5kA per phase, I total 25kA (2 pole) and 50kA (4 pole)										
PSC2-12.5/230 TT PSC2-12.5/230 TTIR	12.5 kA 12.5 kA	65 kA 65 kA	275 V 275 V	≤ 1.3 kV ≤ 1.3 kV	2	1ph+N 1ph+N	2 2	3 293.71 3 622.62		
PSC4-12.5/400 TT PSC4-12.5/400 TTIR	12.5 kA 12.5 kA	65 kA 65 kA	275 V 275 V	≤ 1.3 kV ≤ 1.3 kV	4 4	3ph+N 3ph+N	4 4	6 588.56 8 516.02		
limp (10/350) 25kA p	er phase, I	total 50kA	(2 pole) a	nd 100kA (4 pole)					
PSC2-25/230 TT PSC2-25/230 TTIR	25 kA 25 kA	100 kA 100 kA	275 V 275 V	≤ 1.5 kV ≤ 1.5 kV	2 2	1ph+N 1ph+N	4 4	5 675.43 6 186.05		
PSC4-25/400 TT PSC4-25/400 TTIR	25 kA 25 kA	100 kA 100 kA	275 V 275 V	≤ 1.5 kV ≤ 1.5 kV	4 4	3ph+N 3ph+N	8 8	10 518.23 11 465.86		
(IR) last two digits - wit	h signalling (contacts for	remote indi	ication/monit	oring of a	devices				



Surge protection devices for photovoltaic (PV) installations 1000/1500 VDC

PSM PV is the range of devices for discharging induced transient overvoltages (Type 2 / Class II) for Photovoltaic installations, in accordance with EN 50539-11, UL 1449 certified.

Due to their location, solar panels and in many cases, the inverters they are connected to are exposed to and particularly prone to direct or indirect lightning strikes.

As PV systems are directly connected to electrical networks of buildings, surge protection is essential.

Type 2 / Class II - photovoltaic surge protection devices

Suitable for protection where no external protection is installed. Protection should be installed on the DC and AC side of an installation.

- Clear lifetime indication (on front face) and optional remote (IR) end of life signalling contact
- Plug-in cartridges for quick and easy replacement of damaged ones
- Suitable for PV applications: large-scale, rooftop and self-consumption (off-grid) DC installations.
- · No back-up fuse required due to dynamic thermal disconnect system capacity of 10kA (Iscpv)



PSM3-40/1000 PV	-	40 kA	1060 V	≤ 4.0 kV	3	L+/PE/L-	3	1 875.71
PSM3-40/1000 PVIR	-	40 kA	1060 V	≤ 4.0 kV	3	L+/PE/L-	3	2 462.23
PSM3-40/1500 PV	-	40 kA	1500 V	≤ 5.0 kV	3	L+/PE/L-	3	2 812.99
PSM3-40/1500 PVIR	-	40 kA	1500 V	≤ 5.0 kV	3	L+/PE/L-		3 692.77

PSC PV is a combined device for discharging lightning currents (*Type 1 / Class I*) and protecting against induced transient overvoltages (*Type 2 / Class II*) for Photovoltaic installations, in accordance with EN 50539-11. DIN rail plug-in format.

Type 1+2 / Class I+II photovoltaic surge protection devices (combined in a single device)

- Protection for combiner boxes in areas with greater exposure to the atmosphere
- Exclusive device for photovoltaic systems according to EN 50539-11
- No back-up fuse required due to dynamic thermal disconnect system capacity of 10kA (Iscpv)

1000 VDC photovoltaic surge protection device

PSC3-5/1000 PV	5 kA	40 kA	1060 V	≤ 4.0 kV	3	L+/PE/L-	3	5 784.69
PSC3-5/1000 PVIR	5 kA	40 kA	1060 V	≤ 4.0 kV	3	L+/PE/L-	3	6 478.16
(ID) In all to the state of the								

(IK) last two	aigits - witi	i Signalling	contacts for	remote maica	alion/monitoring	or devices

Spare replacement plug-in cartridges for surge arrestors type									
PSC 12.5/230	12.5 kA	65 kA	275 V	< 1.3 kV	1+2	PSC2/4 - 12.5 ph	1 470.90		
PSC 25/230	25 kA	100 kA	275 V	< 1.5 kV	1+2	PSC2/4 - 25 ph	2 527.78		
PSC 50N2	50 kA	65 kA	255 V	< 1.5 kV	1+2	PSC2 - 25 neutral	2 305.83		
PSC 100N	100 kA	100 kA	255 V	< 1.5 kV	1+2	PSC4 - 25 neutral	3 517.97		
PSM-40/1000 PV	_	40 kA	1170 V	< 2.0 kV	2	PSC3 - 40 PV	481.87		
PSC-5/1000 PV	5 kA	40 kA	1060 V	≤ 4.0 kV	1+2	PSC3-12.5 PV	1 637.66		

















For the protection of low voltage equipment against transient voltage and current surges mainly from atmospheric origin (*lightning*) and transient produced by switching characteristics such as in switching of distribution networks, transformers, motors, etc.

distribution	networks, trans	siormers, moto								
4	DELIN	(10/350 µs)	(8/20 µs)	max.	voltage	.	talala ta			
type	DEHN	L-N	L-N	VOITS L-IN	protection	config	width in 18 mm	price		
	type	(limp)	(ln)	(00)	(Up)		10 111111			
DEHN Type 1+2 combined lightning current and surge protection (in a single unit)										
Clamps voltage to less than 1500V as per SANS 10142-1:2008 table L1										
Prewired spark-gap-based type 1 and 2 combined lightning current and surge arrester										
941110	shield	12.5 kA	12.5 kA	255 V	≤ 1.5kV	1ph+N	2	4 447.19		
954115*	ventil M2	25 kA	25 kA	264 V	≤ 1.5kV	1ph+N	4	14 708.97		
941310	shield	12.5 kA	12.5 kA	255 V	≤ 1.5kV	3ph+N	4	8 085.91		
954315*	ventil M2	25 kA	25 kA	264 V	≤ 1.5kV	3ph+N	4	25 093.79		
DEHN Type 1+2 combined lightning current and surge protection with integrated back up fu										
961200 961205*	ven CI ven CI	25 kA 25 kA	25 kA	255 V 255 V	≤ 1.5kV ≤ 1.5kV	ph ph	2 2	6 782.92 7 340.68		
						Pii	-	7 0 10.00		
	tning current	-	n integrated	•						
961146*	bloc maxi	35 kA	_	440 V	≤ 2.5kV	ph	3	10 438.88		
961176*	bloc maxi	35 kA	_	760 V	≤ 4kV	ph	3	11 277.26		
Type 1 ligh	tning current	protection wit	hout integra	ted backup	fuse					
961145*	bloc	35 kA	_	440 V	≤ 2.5kV	ph	3	7 349.89		
DEHN N-PI	F									
961180	- gap maxi	100 kA		255 V	≤ 1.5kV	N	2	6 134.30		
961185*	gap maxi	100 kA	_	255 V 255 V	≤ 1.5kV ≤ 1.5kV	N	2	6 639.16		
952030	•	100 101	20 kA	255 V	= 1.5kV ≤ 1.5kV	N	1	1 266.19		
952035*	gap gap	_	20 kA	255 V	≤ 1.5kV	N	1	2 249.48		
	alling contacts fo	or remote indica		na of devices						
рени туре	e 2 surge prot	ection devices	s without inte	egrated bac	k up tuse					
	quirement as pe sub boards. For						ion			
Replacea	ble plug-in mod	dules • \	√isual fault in	ndication						
 Clamps v 	oltage to less t	han 1500V as	per SANS 10	0142-1:2008	3 table L1					
DEHN gua	rd Type 2 surg	e protection of	device witho	ut integrate	d back up	fuse				
952070	guard	_	20 kA	275 V	≤ 1.5kV	ph	1	882.08		
952090*	guard	_	20 kA	275 V	≤ 1.5kV	ph	1	1 539.12		
952110	guard	12 kA	20 kA	275 V	≤ 1.5kV	1ph+N	2	2 096.52		
952115*	guard	12 kA	20 kA	275 V	≤ 1.5kV	1ph+N	2	2 484.08		
952310	guard	12 kA	20 kA	275 V	≤ 1.5kV	3ph+N	4	3 692.77		
952315*	guard	12 kA	20 kA	275 V	≤ 1.5kV	3ph+N	4	4 239.04		
* With signa	alling contacts fo	or remote indica	tion/monitorin	ng of devices	3					
DEHN S/M	ACI 275 Type	2 arrester pro	tection dev	ice ACI (Ac	Ivanced Ci	ircuit Inte	erruption)			
	v integrated sw	_								
	reduces compl			, ,			,			
0,	sts. Function re		•	•		,				
952341	guard ACI	_	20 kA	275 V	<1.5 kV	3ph+N	4	6 486.21		
952121	guard ACI	_	20 kA	275 V	<1.5 kV	1ph+N	2	3 804.32		
952100	guard ACI	_	20 kA	275 V	<1.5 kV	ph	1	1 706.66		
DEHN Type	e 2 surge prot	ection device			(non	plug-in r	nodules)			
	•		E I.A	24014	•	, ,	,	057.00		
900453 900454	basic basic	_	5 kA 10 kA	340 V 340 V	≤ 1.2kV ≤ 1.3kV	1ph+N 1ph+N	2 2	957.98 1 028.14		
900454	basic	_	10 kA	340 V	≤ 1.3kV ≤ 1.3kV	3ph+N	4	1 606.61		
		in fault in die					•			
	2 with build	iii iault indica								
900430	cord	_	5 kA	275 V	≤ 1.5kV	1ph+N	-	1 193.74		
DEHNrail n	nodular Type	3 surge protec	ction device	s						
High disc	ble plug-in prof	due to heavy-	duty oxide va	aristor / spa	rk gap con	nbination	ı			
	oordination with	i otilet attesto		OFF	105137		4	4 005 40		
953200	rail		3 kA	255 V	1.25 kV	ph	1	1 695.16		





type	max. PV voltage (Ucpv)	(8/20 μs) DC+/DC- (Imax)	(10/350 μs) DC+/DC- (limp)	voltage protection (Up)	poles	config.	width in 18 mm	price
Photovolta	ic Surge Prot	ection Device	es					
Due to their	· location, solar	nanels and i	n many cases	the inverter	s thev	are connec	ted	
to are expo	sed to and part connected to t	ticularly prone	to direct or i	ndirect lightn	ing strik	es. As PV	systems	
DEHNguar	d Type 1+2 PV	(SPD)	with SCI		(no	n-plug-in n	nodules)	
Combined	l lightning curre	nt and surge a	restor for use	in Photovoltai	ic syster	ns		
900070 900075*	≤ 1200 V ≤ 1200 V	6.25 kA 6.5 kA	40 kA 20 kA	≤ 3.8 kV ≤ 3.8 kV	2 2	DC+/DC- DC+/DC-	4 4	2 021.77 2 325.38
900071 900076*	≤ 1500 V ≤ 1500 V	6.25 kA 6.5 kA	40 kA 20 kA	≤ 4.5 kV ≤ 4.5 kV	2 2	DC+/DC- DC+/DC-	4 4	2 189.67 2 493.28
DEHNguar	DEHNguard Type 2 PV (SPD) with SCI (non-plug-in modules)							
Short circu	Short circuit interruption (SCI) technology for maximum safety in PV systems							
950530	1000 V	_	25 kA	≤ 4 kV	3	DC+/DC-	3	3 416.76
DEHNguar	d Type 2+3 PV	(SPD)	with SCI					
Plug-in ca	rtridges for easy	replacement						
Safe repla	cement of prote	ection modules	without arc fo	rmation due to	o integra	ated DC fus	es	
952515*	≤ 1000 V	-	25 kA	≤ 4 kV	3	DC+/DC-	3	2 913.05
952520	1500V alling contacts fo	– or remote indic	12.5 kA	< 6 kV	3	DC+/DC-	4.5	7 920.30
				ig oi uevices				
Surge prot	ection devices	s for data ne	tworks					
	nominal	voltage	(8/20 µs)	(10/350 µs)		-		
type	voltage (Un)	line-line (Up)	per line (ln)	per line (limp)	poles	config.	width (mm)	price
	,	,	. ,	()			()	
BLITZDUC	TOR – Protect	ion modules						
Universally (BLITZDUCTOR surge arresters are pluggable multipole DIN rail mounting arresters. Universally used for protecting Data networks, control/measuring circuits, bus or telecom systems. • Permits easy replacement of modules (no signal interruption when protection module removed)							
	asy replacemer surge arrester	,	•				emovea)	
920300	•	nt socket to re	•	•			orks	776.01
BLITZDUC	TOR XT – Pro	tection modu	ıles					
	surge protecti			gree of protec	ction for	one pair		
	lation in confor		•	•			d higher	
926244	24 V	≤ 55 V	10 kA	_	4	line-PG	12 mm	1 052.29
Type 1 P1	surge protecti	on device	ontimal n	rotection of o	ne nair :	and the cal	ole shield	
J.	lation in confor				•			
927224	24 V	≤ 90 V	5 kA	1.5 kA	2	line-PG	6 mm	1 848.66
927224	24 V 24 V	≤ 90 V ≤ 55 V	5 kA 5 kA	1.5 kA 1.5 kA	2	line-PG	6 mm	1 848.66
920244	24 V	≤ 52 V	10 kA	2.5 kA	4	line-PG	12 mm	1 606.61
DEHN patcl	h for Ethernet	applications	;					
Universal ar	rester for Indust	rial Ethernet. F	Power over Eth	nernet (PoE+	acc. to I	EEE 802.3a	at to 57V)	
	applications in s			,			,	
929121	48 V	≤ 180 V	0.5 kA	0.5 kA	4	line-PG	19 mm	1 845.81
DEHNpatcl	DEHNpatch outdoor type 2 UL, CSA IP65							
Complete surge protection unit to protect surveillance camera's, PoE ++ 4PPoE and other GBit Ethernet applications from damage due to surges. The IP65 rated enclosure permits safe to use outdoor. Lighting current discharge capacity (10/350 µs)								
Easy mou	nting: even at g	reat heights <i>(u</i>	niversal brack	ets for poles a	and wall	mounting)		
929221 24 V ≤ 52 V 10 kA 2.5 kA 4 line-PG 12 mm							3 795.12	
DEHNcare s	series - Safety	protective glo	ves					
	,		, , ,	8 - medium IEC 61482- 427 kJ / m ² eathable mater	1-2 /1-1 ²			
785796 medium Arc-fault tested protective gloves								2 971.70













AH-0217





Photoelectric smoke detectors

type	supply	standby	alarm	description	price
71	voltage	current		•	

Q series smoke detectors

EN54 compliant

- Dual, bicolour LEDs (green: standby / red: alarm) offer 360° sensing
- Standard detector (4 wire) with relay output 0.8A 30 VDC / 0.4A 250 VAC
- Made of high endurance, solid and colour-fast fire-proof plastic
- Termination base (with captive screws) for easy installation
- · Passed strict EMC tests, illuminating false alarms caused by interference from nearby devices

Smoke detector (Ø)102 mm x (H) 48 mm

Q01-4* 12 - 30 VDC 25 - 75μA 45 mA photoelectric smoke detector **474.97**

Combination smoke and heat detector (Ø)102 mm x (H) 54 mm

Q05-4* 12 - 30 VDC 55 - 85μA 45 mA combination smoke + heat detector **558.92**

8011 series smoke detectors EN54 compliant

- Dual LEDs offer 360° sensing
- Standard detector 2 wire available in 4 wire (relay output) on request
- · Made of high endurance, solid and colour-fast fire-proof plastic
- Termination base (with captive screws) for easy installation

Smoke detector (Ø)102 mm x (H) 47 mm

8011-3* 12 - 30 VDC 25 - 75μA 40 mA photoelectric smoke detector 363.42

Accessories for above smoke detectors

06MB Flush mount frame for sensors Q01-4, Q05-4, 8011-3 **83.96**

QA31 series single station smoke detector

EN54 compliant

- Advanced photoelectric technology for precise detection
- Equipped with 9 VDC battery and 220 VAC power plug
- Low-battery warning (flashing LED indicates battery replacement)
- Built-in manual test button, buzzer (90dB/met.) and flashing LED
- Standard detector (4 wire) with relay output 0.8A- 30 VDC / 0.4A 250 VAC
- · Independent stand-alone device can be installed without any wiring

Single station smoke detector (Ø)105 mm x (H) 40 mm

QA31-4 100 - 220 VAC and/or 9V battery supply photoelectric smoke detector 503.72

Manual call point "in case of fire" break-glass devices

Surface mount with plastic film on glass (H) 88 x (W) 88 x (D) 52 mm

Test key inserts from bottom

· Suitable for majority of conventional fire alarm systems

· Operating contact 6A 250 VAC

AH-0217★ emergency "break glass" manual call point enclosure 230.01

Audible and visual indicating devices

Audible sounder and beacon

IP44

Electronic sounder designed for use with fire alarm, security and industrial signalling systems.

- 32 signal tones selectable by Dip switch
- High sound output with low current consumption
- · Volume control as standard (0 20dB adjustable)
- Two sets of input and output terminals for easy installation

AH-03127-S* 24 VDC 14.5mA surface mount (Ø92.5 mm) electronic sounder

670.48

AH-03127-BS* 24 VDC 14.5mA electronic sounder and illuminated beacon

782.03

Fire alarm bell

- Bell with ABS plastic base for easy mounting and total insulation from electricity
- Motor energised, low power consumption, long operating life

 NQ418*
 24 VDC
 28mA
 4" (100 mm) bell 90dB @1met
 234.61

 NQ618*
 24 VDC
 28mA
 6" (152 mm) bell 90dB @1met
 363.42

* Work in conjunction with fire control system

Notes

