



ELECTRICAL COMPONENTS

Limit Switches

- Safety Limit Switches
- Modular Limit Switches
- Keyed Limit Switches



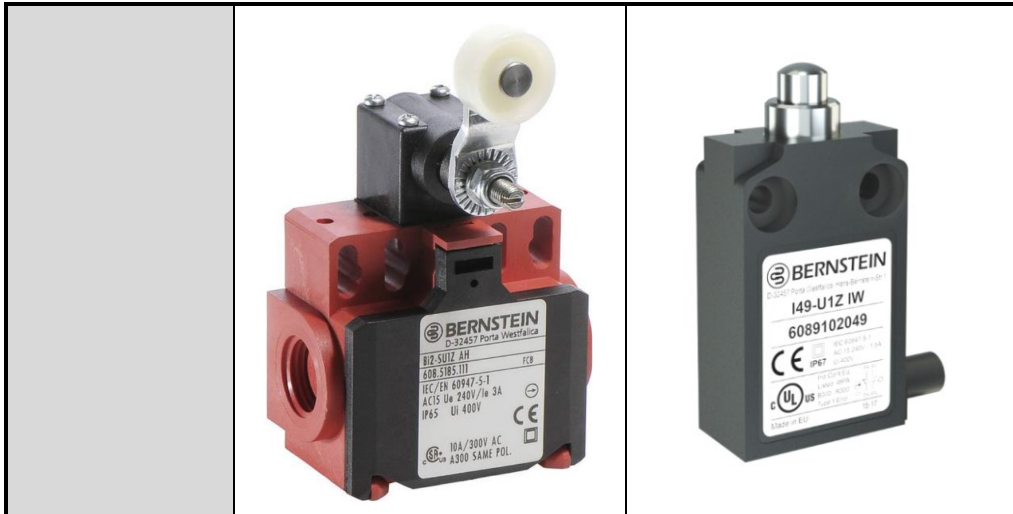


Limit Switches with Plastic Bodies

Bi2

I49

SHS3



Model

Bi2 - 60mm body with 2 cable entries, this switch is ideal for use in series-connected monitoring facilities

I49- Ideal where space is restricted and high IP protection is required. Only model with an actuator option that can pass through and be connected to sheet metal

SHS3 - with a 270° hinge range. Freely adjustable switching point

Contacts	1NC/1NO			2NC		1NC/1NO		2NC		2NC/2NO	
	S l o w	S n a p	M B B	S l o w	S n a p	S l o w	S n a p	S l o w	S n a p	S l o w	S n a p
	✓	—	✓	✓	—	✓	—	✓	—	✓	—
	✓	✓	—			—	✓				
	—	✓	—								

Dependent on the hinge material, options include:

- 1NC/1NO
- 2 x 1NC/1NO
- 2NC/1NO
- 2 x 2NC/1NO
- 2NC
- 2 x 2NC

Certifications

cCSAus

cULus

cCSAus

Enclosure Material

Fibreglass reinforced thermoplastic (UL94-V0)

Fibreglass reinforced thermoplastic (UL94-V0)

Fibreglass reinforced thermoplastic (UL94-V0), hinge stainless steel or die-cast zinc

Cable Entry or Type of Connection

2 x M16 x 1.5

1 m UL-cable, pre-wired

M12 connector or pre-wired

IP Rating

IP65

IP67

IP67 / IP69 K

Body (WxHxD)	mm	59 x 50 x 32	30 x 49 x 16
	In	2.32 x 1.97 x 1.26	1.08 x 1.93 x 0.63

127.5 x 82 (H x W, excluding connection)

5.02 x 3.23 (H x W, excluding connection)

Actuators See page 4

AD, AH, AV, FF, HW RO13.5, RIW, W

AH, IW, IWF, RI1, RIWF

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Information subject to change without notice
MMB = Make Before Break

Limit Switches with Metal Bodies

ENM2

SN2

GC

																		
Model		ENM2 - standard 40mm metal body for all applications			SN2 - 68mm body with 3 cable entries and spacious connection area, this is the optimum solution for through-wiring or branching off electrical circuits			GC - compact design, ideally suited for virtually all safety and position monitoring applications										
Contacts		1NC/1NO		2NO		2NC		1NC/1NO		2NC		1NC/1NO		2NC		2NO		
		S	S	M	S	S	S	S	S	S	S	S	S	S	S	S	S	
		l	n	B	l	n	l	n	l	l	n	l	n	l	n	l	n	l
		o	a		o	a	o	a	o	o	a	o	a	o	o	a	o	a
		✓	✓	—	✓	—	✓	—	✓	✓	—	✓	—	✓	—	✓	—	
		✓	—	✓					—	✓				✓	—	✓		
		✓	—	—										—	✓ ²	—		
Certifications		cCSAus, UL			cCSAus, UL ¹			cCSAus, UL ²										
Enclosure Material		Die cast aluminum			Die cast aluminum			Die cast aluminum										
Cable Entry or Type of Connection		M20 x 1.5			3 x M20 x 1.5			M20 x 1.5										
IP Rating		IP65			IP65			IP65										
Body (WxHxD)	mm	40 x 77.5 x 42			68 x 70.5 x 35.5			36 x 72x 32.5										
	In	1.57 x 3.05 x 1.65			2.68 x 2.78 x 1.4			1.42 x 2.83 x 1.28										
Actuators See page 4		AD, AHZ, AV, AHS-V, DGHW RO20, DGKW RO20, IW, RIW			AD4K, AHS, DGHW, DGKW, HW, LIW, RIW, W			IW, STIW, RIW, AH, AV, AD, HIW, FF, AF, DB										

MMB = Make Before Break

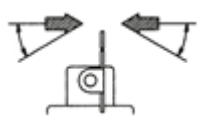
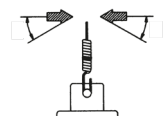
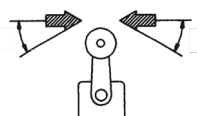
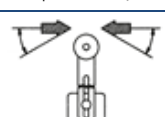

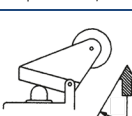
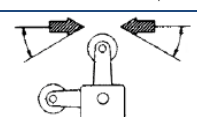
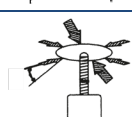

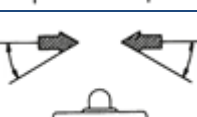
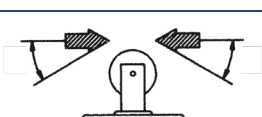
1 - SN2 - all have cCSAus an UL certification, except the 2NC version with actuator AD4K

2 - GC - all have cCSAus an UL certification, except the 1NC/NO version snap action with actuator DB

Information subject to change without notice

Non-Keyed Actuators for Limit Switches

This table shows codes for the various actuators that can be used with the limit switches in this catalog. The information in the table is the suffix in the model description, i.e. IN65-xxx-AHDM would be the IN65 limit switch with the AHDM actuator; xxx represents the contact type.

Actuator	Model								
	Bi2	ENM2	GC	IN65	IN73	I49	I81	MN78	SN2
	AD	AD	AD	AHDM	AHDM	AH	AHDM	AHDM	AD4K
			AF						AF
	AH	AHZ AHS-V		AHDB AHK AHSGU O50	AHK		AHK	AHK	AHS
	AV	AV	AV	AVK	AVK			AVK	
			DGHW RO20	DGHK	DGHK		DGHK	DGHK	DGHW
		DGKW RO20	DGKW RO20	DGKK KNK			DGKK KNK	DGKK	DGKW
			DR						
	FF		FF						
	HW RO13.5		HIW	HK	HK		HK	HK	HW
	W	IW	IW			IW			W LIW
	RIW	RIW	RIW	RK		RIW RIWF	RK		RIW

Information subject to change without notice

Please contact ITC for more options.





Modular Limit Switches

IN65

I81

IN73

MN78

																		
Model	IN65 - easily interchangeable and adjustable actuator elements. 31mm plastic body with standard mounting						I81 - integrated latch function - after actuation manually reset by pulling the blue button. Easily inter-changeable and adjustable actuator elements			IN73 -plastic body Handles 2 or 4 contacts.			MN78 - metal body. Designed to handle rough environments, outdoor areas, or high mechanical loads Handles 2 or 4 contacts					
Contacts	1NC/1NO		2NO		2NC		1NC/1NO					Many options available: <ul style="list-style-type: none"> 1NC/1NO w slow & snap contacts 1NC/INO - slow w MBB 2NC -1 slow & 1 snap 2NC - 2 slow (IN73 only) 2NO -1 slow & 1 snap 2NC/2NO - slow 1NC/3NO - slow 3NC/1NO - slow 4NC - slow 4NO - slow 						
	S l o w	S n a p	M B B	S l o w	S n a p	S l o w	S n a p	Slow		Snap								
	✓	—	✓	✓	✓	✓	✓	✓		—								
	✓	✓	—															
Enclosure Material	Fibreglass reinforced thermoplastic (UL94-V0)						Fibreglass reinforced thermoplastic (UL94-V0)			Fibreglass reinforced thermoplastic (UL94-V0)			Die cast aluminum					
Certifications	cCSAus						cCSAus			cULus			cULus					
Cable Entry	1 x M20 x 1.5						1 x M20 x 1.5			1 x M20 x 1.5			1 x M20 x 1.5					
IP Rating	IP66 & 67						IP66 & 67			IP66 & 67			IP66 & 67					
Body (WxHxD)	mm		31 x 65.5 x 30.3						31 x 81 x 30.3			42.5 x 73.5 x 41			42.5 X 77.5 X 44.5			
	In		1.22 x 2.58 x 1.19						1.22 x 3.19 x 1.19			1.67 x 2.89 x 1.61			1.67 X 3.05 X 1.75			
Actuators	AF, AHDB, AHDM, AHK, AHSGU, RO50, AVK, DGHK, DGKK, HK,KNK, RK, SM						AHK, DGHK, DGKK, HK, KNK, RK, SM			AHDM, AHK, AHGU, RO50, AVGU, RO50, AVK, DGHK, DGKK, HK, RM, SM			AHDM, AHK, AVK, DGHK, DGKK, HK, RM, SM					

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Limit Switches with Keyed Actuators

SKT

SKI

SK

																															
Model		SKT - smallest safety switch with a separate actuator, well suited for applications that require an extremely slim and short switch design					SKI - rotary mounted actuating head and has 2 actuator openings. Designed for installation on section structures and in applications with confined installation space					SK - has a variable actuator head and 2 actuator openings. Particularly suited to operator protection																			
Contacts		1NO/1NC			2NC		1NC/1NO			2NC		1NO/1NC		2NO																	
		S l o p	S n a p	M B B	S l o w	S n a p	S l o w	S n a p	M B B	S l o w	S n a p	S l o w	S n a p	S l o w	S n a p																
		✓	-	✓	✓	-	✓	-	✓	✓	-	✓	-	✓	-																
Enclosure Material		Fibreglass reinforced thermoplastic (UL94-V0)					Fibreglass reinforced thermoplastic (UL94-V0)					Fibreglass reinforced thermoplastic (UL94-V0)																			
Certifications		cCSAus, UL					cCSAus					cCSAus, UL																			
Cable Entry		1 M16 x 1.5					1 M16 x 1.5					3 x M20 x 1.5																			
IP Rating		IP65					IP65					IP65																			
Body (WxHxD)		mm		30 x 83 x 27			In		1.18 x 3.27 x 1.06			mm		31 x 100 x 30.5			In		1.22 x 3.94 x 1.2			mm		52 x 90 x 30			In		2.05 x 3.54 x 1.2		
		In		1.18 x 3.27 x 1.06			mm		31 x 100 x 30.5			In		2.05 x 3.54 x 1.2			mm		52 x 90 x 30			In		2.05 x 3.54 x 1.2							
Actuator Keys		3 keys, different ways to mount					3 keys, different ways to mount					3 keys, different ways to mount																			

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SKC

ENM2-VTW



SKC - 15mm shorter than SK the SKC is good for confined installations

ENM2-VTW- can be used universally in all industrial and safety applications; highly resistant in harsh industrial environments and with compact enclosure for space-saving installation

1NC		1NO/1NC		2NC	
S l o w	S n a p	S l o w	S n a p	S l o w	S n a p
✓	—	✓	—	✓	—
Fibreglass reinforced thermoplastic (UL94-V0)		Fibreglass reinforced thermoplastic (UL94-V0)			
cCSAus		cCSAus			
3 x M16 x 1.5		1 x M20 x 1.5			
IP65		IP65			
52 x 75 x 33		40 x 77.5 x 42			
2.05 x 2.95 x 1.30		1.57 x 3.05 x 1.65			
3 keys, different ways to mount		5 keys, different ways to mount			

Selected Actuator Keys



Standard actuator - BE311.2850.340



High actuating force - BE391.1451.914



Standard actuator - BE311.2850.340



Standard actuator - BE391.1452.116



Radius MRV actuator, 30mm bend radius - BE391.1452.058

For more options on keyed actuators contact ITC.

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ELECTRICAL COMPONENTS

416.663.7223
www.itcproducts.com
 50 Mural St Unit 8
 Richmond Hill, ON L4B 1E4



DIN Rail



DIN Rail Accessories



Non-Metallic Enclosures



Hinged Enclosures



Thermal Management



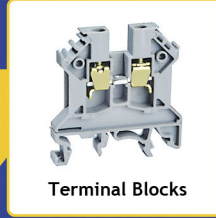
PANEL Lighting



Multipole Connectors



Compact IP68 Connectors



Terminal Blocks



Terminal Strips



22.5mm Pushbuttons



LED Indicators



Control Stations



Limit Switches



Micro Limit Switches



Safety Switches



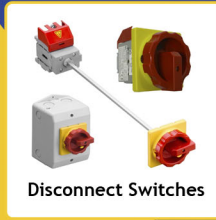
Foot Switches



Circuit Breakers



IEC Contactors



Disconnect Switches



Midget and CC Fuse Holders



Tower Lights



Power Continuity



Ferrules



Colour Coded Lugs



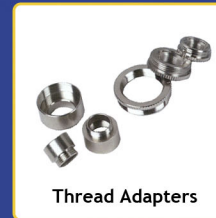
Crimp Terminals



Termination Kits



Cable Glands



Thread Adapters



Cable Entry Systems



Wire Management



DIN Rail Cutters



Assembly Tables



Cutting & Stripping



Crimping Tools



Hole Cutting & Punching Tools

SOME OF OUR MANUFACTURING PARTNERS

