

SIEMENS



Control at your finger tips

3SB5 Brochure

Answers for industry.

Commanding and Signalling 3SB5



Special attention has to be paid to the interaction between man and machine. Fault sources and system disturbances must be signaled reliably – and as early as possible. And if things do get critical – the top priority is to safely and quickly stop machines and bring systems offline. Our extensive range of 3SB5 commanding and Signalling devices is designed to meet the challenge. Push button actuators, selector actuators, key actuators, compact & modular indicators... our 3SB5 pilot devices let you handle every situation confidently.

Application

The 3SB5 range of pilot devices is eminently suitable for installation in any control and auxiliary circuit, AC or DC. Packed with user-oriented features, the 3SB5 pushbuttons and lamps are a practical state-of-the-art answer to the Indian customer's search for higher contact reliability, increased operator safety, reduced labour input (faster mounting and wiring), electronics compatibility and compactness plus IP65/67 degree of protection. The availability of 2 separate models – the rear wire connection type for panel mounting application and the ultra-compact front wire connection type for push button stations with removable covers render the 3SB5 devices ideal for panels, control desks, control stations, machine tools, etc.

Range

Pushbutton Actuators:

Normal, Raised (opaque / illuminated)

Selector Actuators:

2-position, 3-position
(maintained / momentary, opaque / illuminated)

Indicating Lamps:

LED, BA9s filament lamp

Key Actuators:

2 position and 3 position (maintained / momentary)

Mushroom Actuators &

E-Stop Actuators

Twin Push Button Actuators

Push Button Station:

Metal, Plastic

Benefits

Contact reliability

3SB5 contact block is an ideal component in control systems, where contact reliability at low voltage is essential as in cases involving PLCs, DCS systems, CNC systems, etc.

Thanks to the "double break parallel bridge contact system", 3SB5 offers guaranteed continuity at voltage as low as 17V DC and signal strength as low as 5mA.

SIGUT® Termination

This is yet another unique feature and is highly user-oriented. It increases safety to the operator by preventing accidental contact of the finger or the back-of-the-hand with live terminals. A major hazard has therefore been eliminated. The open terminals, captive screws, funnel-shaped cable entrances and guides for power screw drivers reduce wiring / testing time (electrician's time) by approximately 30%.

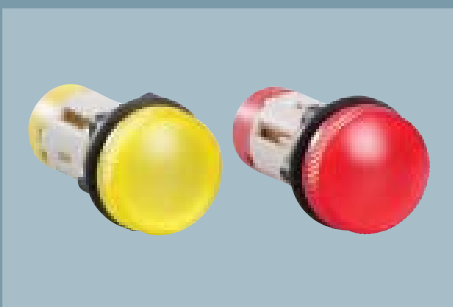
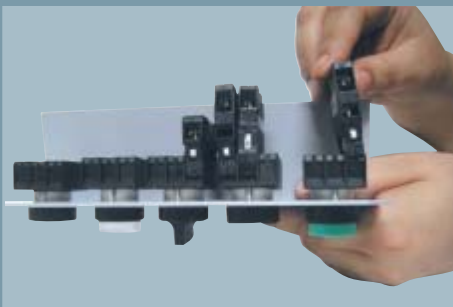
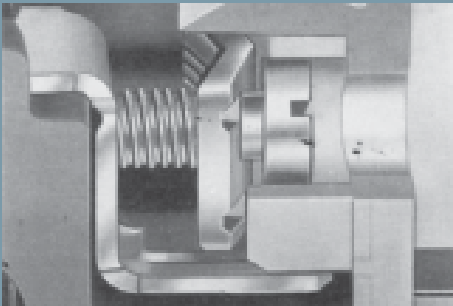
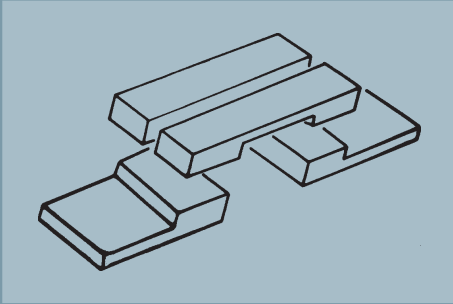
Snap mounting

The actuators, lens assemblies are mounted on the panel door / housing cover into a holder and twist-latched into it. The holder is secured to the panel door / housing cover by means of two screws.

The snap mounting facility minimises labour and significantly reduces installation time. For rear connection models, contact blocks and lamp holders can be mounted without a screw driver.

Other benefits

- **Compact contact block** design of 3SB5 makes it a preferred choice for applications where there are limitations on panel depth e.g. marine applications, machine tool panels etc. For a contact block housing a single contact (1 NO or 1 NC) the depth is just 20 mm.!
- **Easy identification** for contact blocks is possible due to the colour coding. In case of 3SB5 compact indicating lamps the colour of housing is same as that of the lens assembly. This helps in easy stocking/identification.
- **Built in low voltage glow protection:** The LED pilot lights are essentially Light Emitting Diodes which start glowing at low voltages as low as 4V. Such glow at low voltages (typically caused by residual voltage due to leakage currents) can lead to erroneous interpretation. The 3SB5 LED indicating lamps are provided with low voltage glow protection (LVGP). This eliminates the possibility of any false indication due to leakage voltage or current.
- **Built in surge suppressors:** 3SB5 LED pilot lights are provided with an in-built "surge suppressor". This helps in protecting sensitive electronic devices such as PLC, DCS systems, CNC systems, etc. from switching over voltage.



Technical Data

Pushbuttons and indicating lamps

Rated insulation voltage U_i	All executions except lamp holder	AC 690V, 50Hz
	BA9s lamp holder	AC 250V, 50Hz; DC 250V
	Illumination module with integrated LED / Compact Pilot Light, compact wideband LED	AC 440V, 50Hz; DC 250V
Rated operational voltage U_e	For contact blocks	660V, 50Hz
	For Illumination modules with integrated LED	24V AC/DC, 110V AC, 110V DC, 230V AC, 220V DC
	For Illumination modules with BA9s LED lamp	24V AC/DC, 110V AC/DC, 240V AC
	For Illumination modules with BA9s filament lamp	24V AC/DC, 110V AC/DC, 230V AC/DC
	For Compact LED indicating lamps	24V AC/DC, 110V AC, 110V DC, 220/240V AC, 220V DC
	For compact BA9s filament indicating lamp	24V AC/DC, 110V AC/DC, 230V AC/DC
	Wide band LED indicating lamp	42V to 240V AC & 42V to 220V DC
Back-up HRC fuse rating	16A quick acting cartridge	
	10A delayed acting cartridge	
Mechanical life	All actuators (except the following)	10×10^6 cycles
	Luminous actuators	3×10^6 cycles
	Selector, key and latched mushroom actuator	3×10^5 cycles
Electrical life	Depends on load current e.g. 10×10^6 cycles with 3TH30, 3TF30/31 contactors	
Voltage limits	+10% -15% nominal supply voltage	
Switching frequency	1200 cycles per hour	
Degree of protection	Pushbuttons & Indicating Lamps	Standard execution - IP65 With protective cover - IP67
	Terminals of contact blocks and illumination modules Key execution IP 54	Standard execution - IP20
Permissible service temperature range	-25°C to +60°C	
Terminal capacity	Finely stranded cable with end sleeves (end sealing ferrule)	2 x 0.5 to 1.5 mm ²
	Solid conductor	2 x 1 to 2.5 mm ²
	Solid conductor with end sleeves (end sealing ferrule)	2 x 0.5 to 0.75 mm ²
	Finely stranded cable with end sleeves (end sealing ferrule)	2 x 1 to 1.5 mm ² (for compact variants)
Degree of pollution	3	

Continuous current, rated operational current I_e , contact blocks

I_e /AC-12	I_e /AC-15	U_e Volts (40-60 Hz)	I_e /DC-12	I_e /DC-13	U_e Volts-DC
10 A	6 A	24V	10 A	6 A	24V
	6 A	110V	8 A	4 A	48V
	6 A	220/230V	3.5 A	1.2 A	110V
	4 A	380/400V	1 A	0.4 A	220V


Contact block / Illumination module configuration					
Actuator - Illuminated Push button and selector	Voltage	Max. possible lamp holders (lamp holder always in middle position)	Max. possible contact blocks (1st block-left, 2nd-right, 3rd-middle)		Accessory to operate middle contact block (Order separately & snap-fit on actuator)
			Rear connection	Front connection	
With BA9s LED	24V AC/DC	1	2	2	Not applicable
	110V AC/DC,	1	1	1	
	240V AC	1	1	1	
With BA9s Filament lamp	24V AC/DC	1	2	2	Not applicable
	110V AC/DC,				
	230V AC				
Integrated LED	24V AC/DC, 110V AC	1	2	-	Not applicable
	230V AC, 100V DC, 220V DC				
Actuator / Opaque					
Push button	-	-	3	3	Thrust cap
Selector	-	-	3	3	Thrust pad
Key	-	-	3	3	Thrust pad
Mushroom - momentary	-	-	3	3	Thrust cap

Indicating Lamps 3SB5


Compact LED indicating lamps

	Voltage	Colour	Type Ref.		
	24 V AC/DC	Red	3SB52 85-6HC01		
		Green	3SB52 85-6HE01		
		Amber	3SB52 85-6HL01		
		Blue	3SB52 85-6HF01		
		White	3SB52 85-6HG01		
		Yellow	3SB5285-6HD01		
		Clear	3SB5285-6HH01		
	30V DC [®]	Red	3SB5285-6HC13		
		Green	3SB5285-6HE13		
		Amber	3SB5285-6HL13		
		Blue	3SB5285-6HF13		
		White	3SB5285-6HG13		
		Yellow	3SB5285-6HD13		
		Clear	3SB5285-6HH13		
	110 V AC 50/60 Hz	Red	3SB52 85-6HC02		
		Green	3SB52 85-6HE02		
		Amber	3SB52 85-6HL02		
		Blue	3SB52 85-6HF02		
		White	3SB52 85-6HG02		
		Yellow	3SB52 85-6HD02		
		Clear	3SB52 85-6HH02		
			110 V DC [®]	Red	3SB52 85-6HC04
				Green	3SB52 85-6HE04
Amber	3SB52 85-6HL04				
Blue	3SB52 85-6HF04				
White	3SB52 85-6HG04				
Yellow	3SB52 85-6HD04				
Clear	3SB52 85-6HH04				
	220/240 V AC 50/60 Hz			Red	3SB52 85-6HC03
				Green	3SB52 85-6HE03
		Amber	3SB52 85-6HL03		
		Blue	3SB52 85-6HF03		
		White	3SB52 85-6HG03		
		Yellow	3SB52 85-6HD03		
		Clear	3SB52 85-6HH03		
			220 V DC [®]	Red	3SB52 85-6HC05
				Green	3SB52 85-6HE05
Amber	3SB52 85-6HL05				
Blue	3SB52 85-6HF05				
White	3SB52 85-6HG05				
Yellow	3SB52 85-6HD05				
Clear	3SB52 85-6HH05				

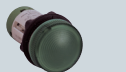
Wide band LED PILOT LIGHTS (with plastic front ring) till stock lasts

	Voltage	Colour	Type Ref.
	42 to 240 V AC & 42 to 220 V DC	Red	3SB52 35-6HC10
		Green	3SB52 35-6HE10
		Amber	3SB52 35-6HL10
		Blue	3SB52 35-6HF10
		White	3SB52 35-6HG10
		Yellow	3SB52 35-6HD10
		Clear	3SB52 35-6HH10

Wide band compact LED indicating lamps (available from 1-12-2012)


	Voltage	Colour	Type Ref.
	42 to 240 V AC & 42 to 220 V DC	Red	3SB52 35-6HC14
		Green	3SB52 35-6HE14
		Amber	3SB52 35-6HL14
		Blue	3SB52 35-6HF14
		White	3SB52 35-6HG14
		Yellow	3SB52 35-6HD14
		Clear	3SB52 35-6HH14

Complete BA9s FILAMENT indicating lamps (with plastic front ring)

	Voltage	Type Ref.
	24 V AC/DC	3SB52 86-6H.01
	110 V AC/DC #	3SB52 86-6HC.11
	230 V AC	3SB52 86-6HC.12


Replace "." by following colour codes
C = Red, E = Green, L = Amber, F = Blue, H = Clear

Complete indicating lamps W/O LAMP** (with plastic front ring)

	Colour	Type Ref.
	Red	3SB52 86-6HC00
	Green	3SB52 86-6HE00
	Amber	3SB52 86-6HL00
	Blue	3SB52 86-6HF00
	Clear	3SB52 86-6HH00

Modular Indicating Lamps (with plastic front ring)


Lens Assembly

	Colour	Type Ref.
	Red	3SB52 01-6BC00
	Green	3SB52 01-6BE00
	Amber	3SB52 01-6BL00
	Blue	3SB52 01-6BF00
	White	3SB52 01-6BG00
	Yellow	3SB52 01-6BD00
	Clear	3SB52 01-6BH00


Illumination Module[§] - (suitable for INTEGRATED LED lamp)

	Voltage	Colour	Type Ref.
	24 V AC/DC	Red	3SB54 00-7CC
		Green	3SB54 00-7CE
		Amber	3SB54 00-7CL
		Blue	3SB54 00-7CF
		White†	3SB54 00-7CG
		Yellow	3SB54 00-7CD
	110 V AC	Red	3SB54 00-7EC
		Green	3SB54 00-7EE
		Amber	3SB54 00-7EL
		Blue	3SB54 00-7EF
		White†	3SB54 00-7EG
		Yellow	3SB54 00-7ED
	110 V DC [®]	Red	3SB54 00-7DC
		Green	3SB54 00-7DE
		Amber	3SB54 00-7DL
		Blue	3SB54 00-7DF
		White†	3SB54 00-7DG
		Yellow	3SB54 00-7DD
	230 V AC	Red	3SB54 00-7TC
		Green	3SB54 00-7TE
		Amber	3SB54 00-7TL
		Blue	3SB54 00-7TF
		White†	3SB54 00-7TG
		Yellow	3SB54 00-7TD
220 V DC [®]	Red	3SB54 00-7HC	
	Green	3SB54 00-7HE	
	Amber	3SB54 00-7HL	
	Blue	3SB54 00-7HF	
	White†	3SB54 00-7HG	
	Yellow	3SB54 00-7HD	

Illumination Module[§] - (suitable for BA9s LED lamp)

	Voltage	Colour	Type Ref.	
	24 V AC/DC	Red	3SB54 00-8CC	
		Green	3SB54 00-8CE	
		Blue	3SB54 00-8CF	
		Yellow	3SB54 00-8CD	
		Red	3SB54 00-8FC	
		Green	3SB54 00-8FE	
	110 V AC/DC	Blue	3SB54 00-8FF	
		Yellow	3SB54 00-8FD	
		240 V AC	Red	3SB54 00-8SC
			Green	3SB54 00-8SE
			Blue	3SB54 00-8SF
			Yellow	3SB54 00-8SD

Illumination Module[§] - (suitable for BA9s FILAMENT lamp)

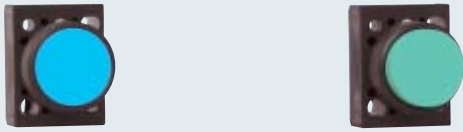
	Voltage	Type Ref.
	24 V AC/DC (24 V lamp)	3SB54 00-6CC
	110 V AC/DC (130 V lamp)	3SB54 00-6FH
	230 V AC (130 V lamp)	3SB54 00-6LH

® Use of bridge rectified DC source (filtered O/P) recommended
With voltage reducer † Can be used with clear lens.
** To be used with BA9s filament lamp of appropriate / required voltage.
Bulb price to be added extra in above prices.

§ Illumination module can be used with lens assembly, illuminated push buttons & illuminated selector actuators.

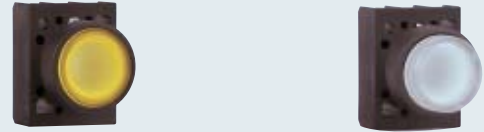
Actuators

Modular pushbutton actuators



Actuator with holder - Opaque

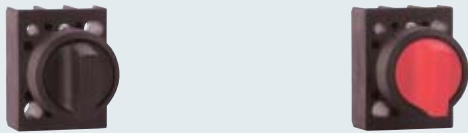
	Colour	Type Ref.		Colour	Type Ref.
Normal	R	3SB50 00-0AC01	Raised	R	3SB50 00-0LC01
	G	3SB50 00-0AE01		G	3SB50 00-0LE01
	B	3SB50 00-0AF01		B	3SB50 00-0LF01
	W	3SB50 00-0AG01		W	3SB50 00-0LG01
	Y	3SB50 00-0AD01		Y	3SB50 00-0LD01
	BLK	3SB50 00-0AB01		BLK	3SB50 00-0LB01



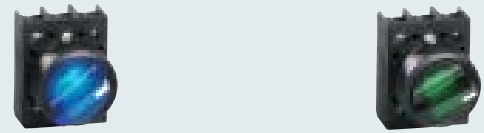
Actuator with holder - Illuminated

	Colour	Type Ref.		Colour	Type Ref.
Normal	R	3SB50 01-0AC01-0PQ0	Raised	R	3SB52 18-0LC01-0PQ0
	G	3SB50 01-0AE01-0PQ0		G	3SB52 18-0LE01-0PQ0
	A	3SB50 01-0AL01-0PQ0		A	3SB52 18-0LL01-0PQ0
	B	3SB50 01-0AF01-0PQ0		B	3SB52 18-0LF01-0PQ0
	W	3SB50 01-0AG01-0PQ0		W	3SB52 18-0LG01-0PQ0
	Y	3SB50 01-0AD01-0PQ0		Y	3SB52 18-0LD01-0PQ0
	C	3SB50 01-0AH01-0PQ0		C	3SB52 18-0LH01-0PQ0

Modular selector actuators



2 POSITION - Opaque			3 POSITION - Opaque		
	Colour	Type Ref.		Colour	Type Ref.
Maintained	BLK	3SB50 00-2AB01	Maintained	BLK	3SB50 00-2DB01
	R	3SB50 00-2AC01		R	3SB50 00-2DC01
Momentary	BLK	3SB50 00-2BB01	Momentary	BLK	3SB50 00-2EB01
	R	3SB50 00-2BC01		R	3SB50 00-2EC01



2 POSITION - Illuminated			3 POSITION - Illuminated		
	Colour	Type Ref.		Colour	Type Ref.
Maintained	R	3SB50 01-2AC01	Maintained	R	3SB50 01-2DC01
	G	3SB50 01-2AE01		G	3SB50 01-2DE01
	B	3SB50 01-2AF01		B	3SB50 01-2DF01
	Y	3SB50 01-2AD01		Y	3SB50 01-2DD01
	C	3SB50 01-2AH01		C	3SB50 01-2DH01
Momentary	R	3SB50 01-2BC01	Momentary	R	3SB50 01-2EC01
	G	3SB50 01-2BE01		G	3SB50 01-2EE01
	B	3SB50 01-2BF01		B	3SB50 01-2EF01
	Y	3SB50 01-2BD01		Y	3SB50 01-2ED01
	C	3SB50 01-2BH01		C	3SB50 01-2EH01



Mushroom actuators 40 mm ø			Emergency stop 40 mm ø		
Description	Colour	Type Ref.	Description	Colour	Type Ref.
Momentary	BLK	3SB50 00-1NB01	Push to trip, turn to release with 1NC	R	3SB52 03-0UC01
	R	3SB50 00-1NC01			
Push to trip, turn to release	BLK	3SB50 00-1CB01	Push to trip, turn to release	R	3SB50 00-0UC01
			Push to trip, pull to release	R	3SB50 00-0VC01
			Push to trip, key to release	R	3SB50 00-0TC01



Contact block for panel mounting	
Configuration	Type Ref.
1 NO	3SB54 00-0B
1 NC	3SB54 00-0C
1 NO + 1 NC	3SB54 00-0A
2 NO	3SB54 00-0E
2 NC	3SB54 00-0F


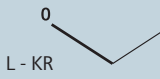
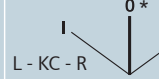
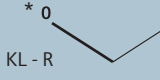
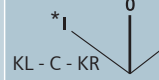
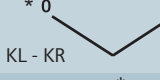
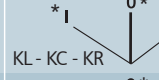
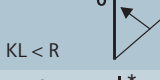
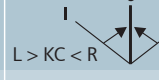



Type Ref.	Description
Twin pushbutton - Opaque	
3SB52 01-7EC01 3SB50 00-7EC01	Twin pushbutton with 1NO & 1NC Modular Twin push button
Twin pushbutton - Illuminated*	
3SB52 34-7EC01 3SB50 01-7EC01	Twin pushbutton with 1NO & 1NC Modular Twin push button

Colour	
R	Red
G	Green
A	Amber
B	Blue
W	White
Y	Yellow
C	Clear
BLK	Black



* Use Illumination module with integrated LED only.




Modular key actuator

		2 Position key actuator (with holder for contact block)		3 Position key actuator (with holder for contact block)			
		Configuration	Type Ref.	Configuration	Type Ref.		
Maintained		L - KR	3SB50 00-4AC01	Maintained		L - KC - R	3SB50 00-4HA01
		KL - R	3SB50 00-4AA01			KL - C - KR	3SB50 00-4HC01
		KL - KR	3SB50 00-4AB01			KL - KC - KR	3SB50 00-4HB01
Momentary		KL < R	3SB50 00-4TA01	Momentary		L > KC < R	3SB50 00-4JA01
		L > KR	3SB50 00-4TC01				

* Key removable position

Pushbutton stations

					
Metal enclosure : Aluminium die cast			Plastic Enclosure		
No. of control points	Description	Type Ref.	No. of control points	Description	Type Ref.
1	Normal opaque push button - Green with 1NO contact block, "START"	3SB58 01-8AA3	1	Normal opaque push button - Green with 1NO contact block, "START"	3SB58 01-7AA3
1	Red mushroom momentary actuator, with 1NC contact block, "STOP"	3SB58 01-8AN3	1	Red mushroom momentary actuator, with 1NC contact block, "STOP"	3SB58 01-7AN3
1	Red maintained mushroom actuator, turn to release, with 1NC contact block, "E-STOP"	3SB58 01-8AM3	1	Red maintained mushroom actuator, turn to release, with 1NC contact block, "E-STOP"	3SB58 01-7AM3
2	Normal opaque push button - Green with 1NO contact block, "START" + Normal opaque push button - Red with 1NC contact block, "STOP"	3SB58 02-8AC3	2	Normal opaque push button - Green with 1NO contact block, "START" + Normal opaque push button - Red with 1NC contact block, "STOP"	3SB58 02-7AC3
2	Normal opaque push button - Green with 1NO contact block, "START" + Red mushroom-maintained with 1NC contact block, "STOP"	3SB58 02-8AE3	2	Normal opaque push button - Green with 1NO contact block, "START" + Red mushroom-maintained with 1NC contact block, "STOP"	3SB58 02-7AE3
3	Normal opaque push button - Green with 1NO contact block, "FORWARD" + Normal opaque push button - Red with 1NC contact block, "STOP" + Normal opaque push button - Black with 1NO contact block, "REVERSE"	3SB58 03-8AH3	3	Normal opaque push button - Green with 1NO contact block, "FORWARD" + Normal opaque push button - Red with 1NC contact block, "STOP" + Normal opaque push button - Black with 1NO contact block, "REVERSE"	3SB58 04-7AG3

							
Pendant mounting : Plastic			Pendant mounting : Aluminium die cast			Contact blocks base mounting	
No. of control points	Description	Type Ref.	No. of control points	Description	Type Ref.	Configuration	Type Ref.
1	Normal opaque push button - Green with 1NO contact block, "START"	3SB58 21-7AA3	2	Normal opaque push button - Green with 1NO contact block, "START"	3SB58 22-8AC3	1NO	3SB54 20-0B
2	Normal opaque push button - Green with 1NO contact block, "START" + Normal opaque push button - Red with 1NC contact block, "STOP"	3SB58 22-7AC3		1NC		3SB54 20-0C	
3	Normal opaque push button - Green with 1NO contact block, "FORWARD" + Normal opaque push button - Red with 1NC contact block, "STOP" + Normal opaque push button - Black with 1NO contact block, "REVERSE"	3SB58 23-7AH3	3	Normal opaque push button - Green with 1NO contact block, "FORWARD" + Normal opaque push button - Red with 1NC contact block, "STOP" + Normal opaque push button - Black with 1NO contact block, "REVERSE"	3SB58 23-8AH3	Illumination module base mounting	
						Configuration	Type Ref.
						Lamp Holder with Lamp 110V AC/DC	3SB54 20-2PFO
						Lamp Holder with Lamp 230V AC	3SB54 20-2PLO

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