

IV series

Pushbutton switches for joystick application
 • bushing Ø 16 mm • momentary



DISTINCTIVE FEATURES

- Increased safety with a NAMUR switch
- Great tactile feedback
- Endless customization possibilities



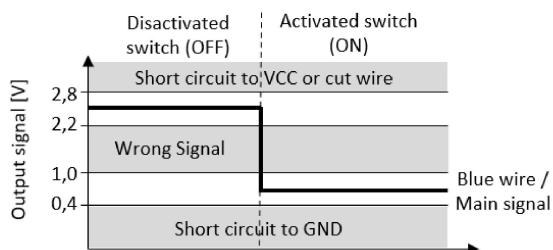
ENVIRONMENTAL SPECIFICATIONS

- Sealing: IP69K (front) and IP67 (back) according to IEC 60529 - not panel sealed
- Operating temperature: -20 °C to +65 °C
- Storage temperature: -40 °C to +85 °C



ELECTRICAL SPECIFICATIONS

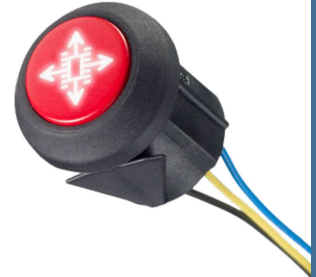
- Electrical function: Momentary
- Max. current/voltage rating with resistive load : 10 mA, 5 VDC
- Output with a pull-up resistor of 3.1 kohms (not included), 5 VDC
 - 0.1 mA to 2 mA
 - High position = 2.6 VDC -0.4/+0.2 (blue wire)
 - Low position = 0.5 VDC -0.1/+0.5 (blue wire)
- Electrical life: 2 million cycles



GENERAL SPECIFICATIONS

- Total travel: 1.6 mm ± 0.4 mm
- Typical operating force: 7.6 N ± 3 N
- Maximum applicable force: 50 N

The company reserves the right to change specifications without notice.



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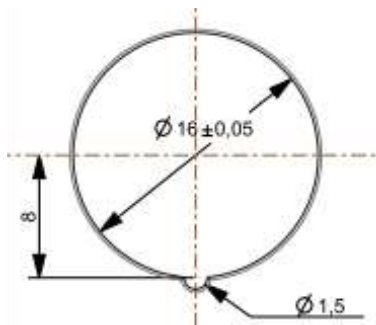
MATERIALS

- Body: PA, glass fiber reinforced; black
- Actuator: PA, glass fiber reinforced, several colors available, see part number structure hereafter
- Membrane: fluorinated silicone, black
- Output: 600 mm long 24 AWG wires, ETFE or EFEP sheath

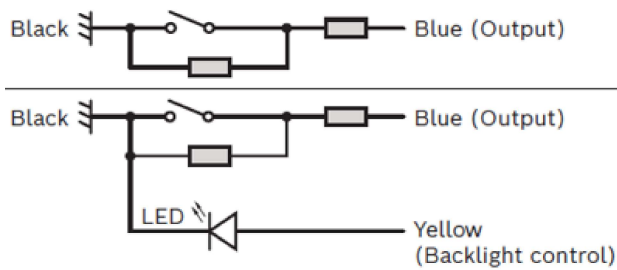


PANEL MOUNTING

- Panel thickness: 1.8 mm \pm 0.1 mm
- Panel cut-out:



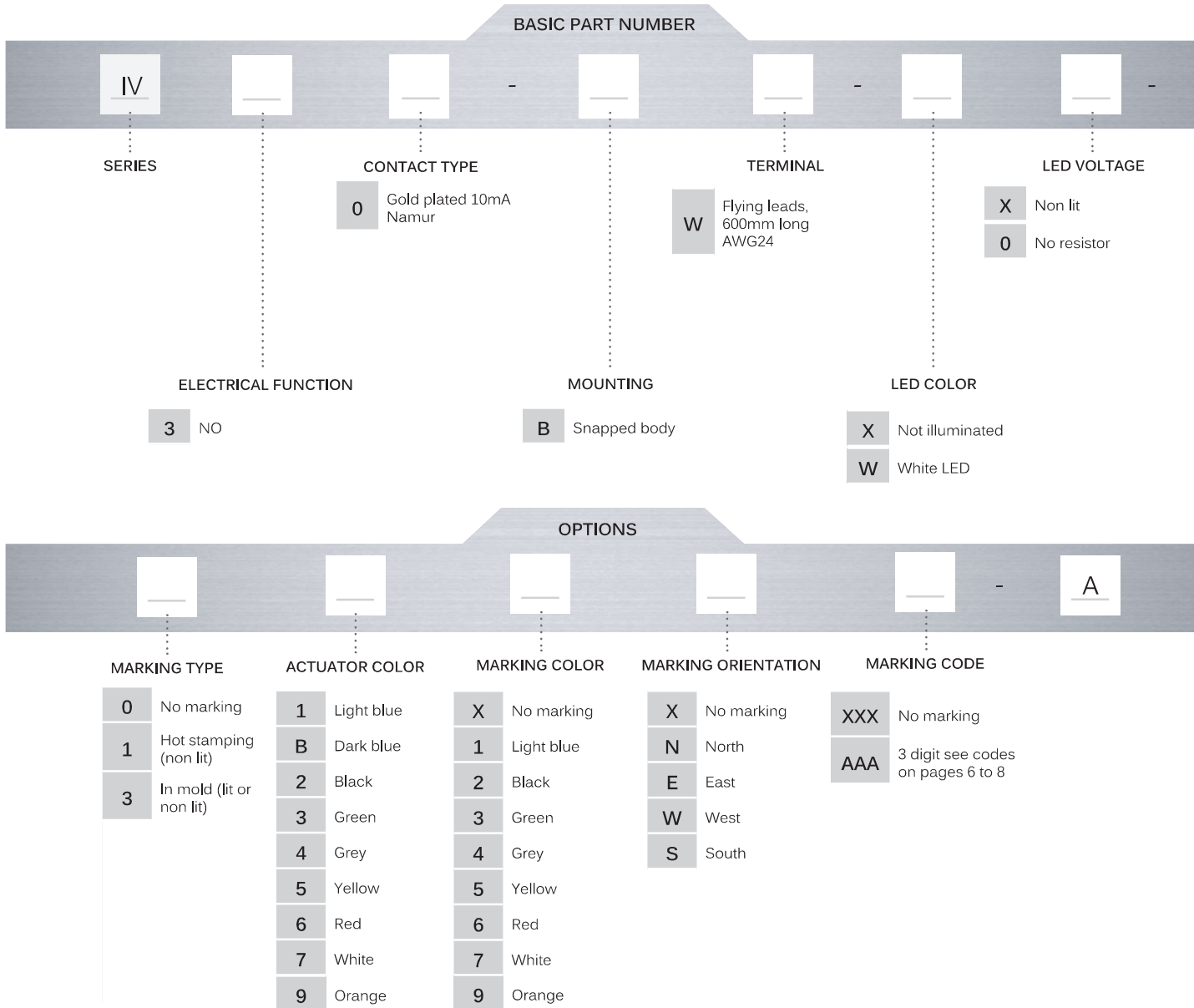
ELECTRICAL DIAGRAMS



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BUILD YOUR PART NUMBER



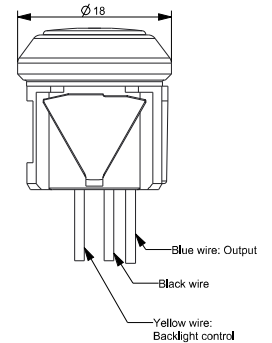
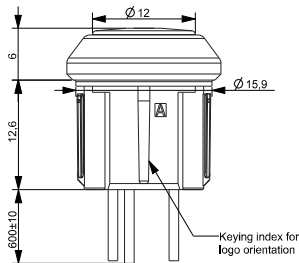
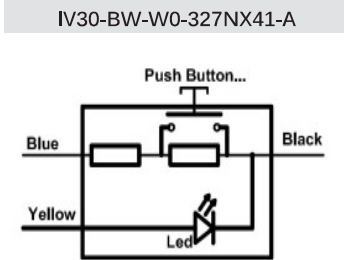
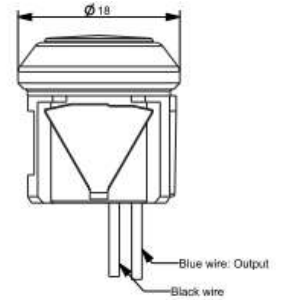
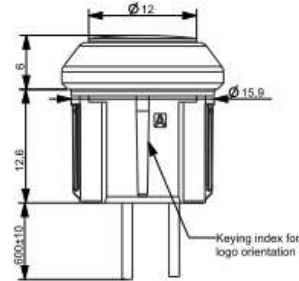
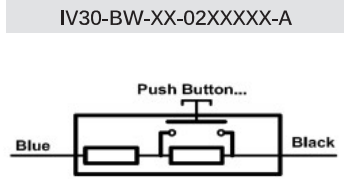
ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

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MODELS



MARKING TYPES



- 1 No marking
- B Hot stamping - for non illuminated products only, unicolored logos only
- 2 In-mold marking - For all products, allows backlighting and multi-colored logos

ACTUATOR COLORS



- 1 Light blue
- B Dark blue
- 2 Black
- 3 Green
- 4 Gray
- 5 Yellow
- 6 Red
- 7 White
- 9 Orange

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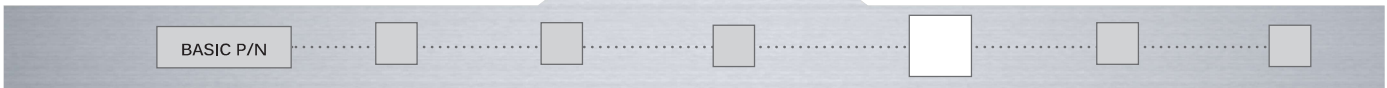
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MARKING COLORS

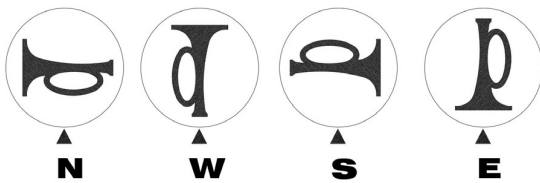


- 1 Light blue
- B Dark blue
- 2 Black
- 3 Green
- 4 Gray
- 5 Yellow
- 6 Red
- 7 White
- 9 Orange

MARKING ORIENTATION



Marking orientation index is pointed by arrow:

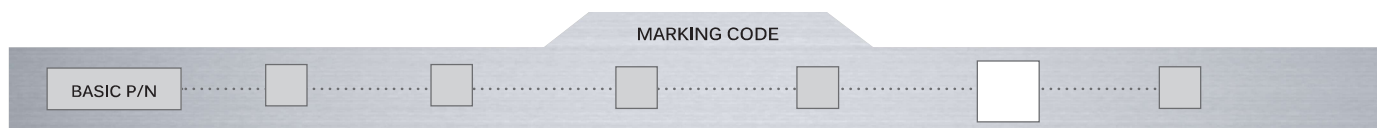


Example of north logo orientation

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By default and except for the dot logo (XCD), the markings are Ø9,5 mm for hot stamping and Ø8 mm for in-mold. Note that all these logo may not already exist and could increase the lead time of the first order.

CODE	SYMBOL	DESCRIPTION	CODE	SYMBOL	DESCRIPTION	CODE	SYMBOL	DESCRIPTION
XXX	None	-	X16		Revolving light	X32		Emergency first aid vehicle (2565)
X01	ON	-	X17		Rear ventilator	X33		Load tipping (1557)
X02	OFF	-	X18		Heating (0637)	X34		Loading light (2457)
X03		-	X19		Door opening	X35		Tractor, rear-ward (1667)
X04	I	-	X20		Windshield demister/defroster (0635)	X36		Combine, direction of movement (1678)
X05	II	-	X21		Windshield wiper (0086)	X37		Use no forks (2406)
X06	STOP	-	X22		Windshield washer (0088)	X38		Transmission (1166)
X07	A	Stop	X23		Ventilator fan (0089)	X39		Working spot light (1145)
X08	M	Motion	X24		Side mirror defroster	X40		Engine (0640)
X09		Up motion	X25		Restarting pump	X41		Horn (0244)
X10		Down motion	X26		Front fog lights (0633)	X42		Lock (1656)
X11		Hot	X27		Rear fog lights (0634)	X43		Taxi sign light (2551)
X12		Cold	X28		Propulsion system trim	X44		Working light (1204)
X13		Hazard warning (0085)	X29		Beacon (1141)	X45		Working light symmetric (1204)
X14		Traveller lighting	X30		Anchor	X46		-
X15		Driver lighting (1421)	X31		Electric motor (0011)	X47	ASM	-

CODE	SYMBOL	DESCRIPTION
X48		All wheel drive
X49		Differential lock (1662)
X50		-
X51		-
X52		-
X53	N	-
X54		Rear window wiper (0097)
X55		Rear window washer (0099)
X56		Lower load (2223)
X57		Cab lock (1560)
X58		Extraction
X59		Pumping in
X60		Rear PTO (1572)
X61		Front PTO
X62		Rockshaft down
X63		Rockshaft up
X64		Indicator
X65		Brake release
X66		Baggage room left door
X67		Baggage room right door
X68		Power blinds

CODE	SYMBOL	DESCRIPTION
X69		Engine idle control
X70	CRUISE RES/SET	Cruise res/set
X71		Driver windows up/down
X72		Middle door opening
X73		Front door opening
X74		Lighting in baggage room
X75	CRUISE ON/OFF	Cruise on/off
X76	TV	TV
X77		Pump
X78	WC	Toilet
X79		Toilet decontamination
X80		Front windshield heating
X81	AUS	Aus
X82		Radiator fan
X83		Remove retarder
X84		Restricted speed
X85		Preheater
X86		ABS detection
X87		ECAS detection
X88		Engine stop
X89	CRUISE RES/CAN	Cruise res/cancel

CODE	SYMBOL	DESCRIPTION
X90		ECAS reset
X91		Driver windows heating
X92	CRUISE SET+/SET-	Cruise set
X93		Air bag up/down
X94		Read lighting
X95		Lighting main switch
X96		Heating using water
X97		Low beam
X98		Position lights
X99		Diesel acceleration
XA1		Manual mode
XA2		Clockwise cabin rotation
XA3		Anticlockwise cabin rotation
XA4		-
XA5		-
XA6		Parking brake
XA7		-
XA8		-
XA9		-
XAA		-
XAB		-

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CODE	SYMBOL	DESCRIPTION
XAC		-
XAD		-
XAE		-
XAF		-
XAG		Battery charging condition (0247)
XAH		Turn signals (0084)
XAJ		High beam (0082)
XAK		Differential lock, bogie (2600)
XAL		Brushing with a rotating brush (0070)
XAM		Differential lock, transfer case 4x4 (2475)
XAN		Loader bucket, float (1441)
XAP		Loader bucket (1437)
XAQ		Rear window washer & wiper (0098)
XAR		Header, Header drive (1579)
XAS		Excavator/backhoe boom side shift (2091)
XAT		Chemical water treatment (1851)
XAU		Grapple skidder, single funct ^o boom (1762)

CODE	SYMBOL	DESCRIPTION
XAV		-
XAW		-
XAY		-
XAZ		-
XB1	HIGH	-
XB2	LOW	-
XB3		-