

INCREASED SAFETY - HARMATEX SERIES

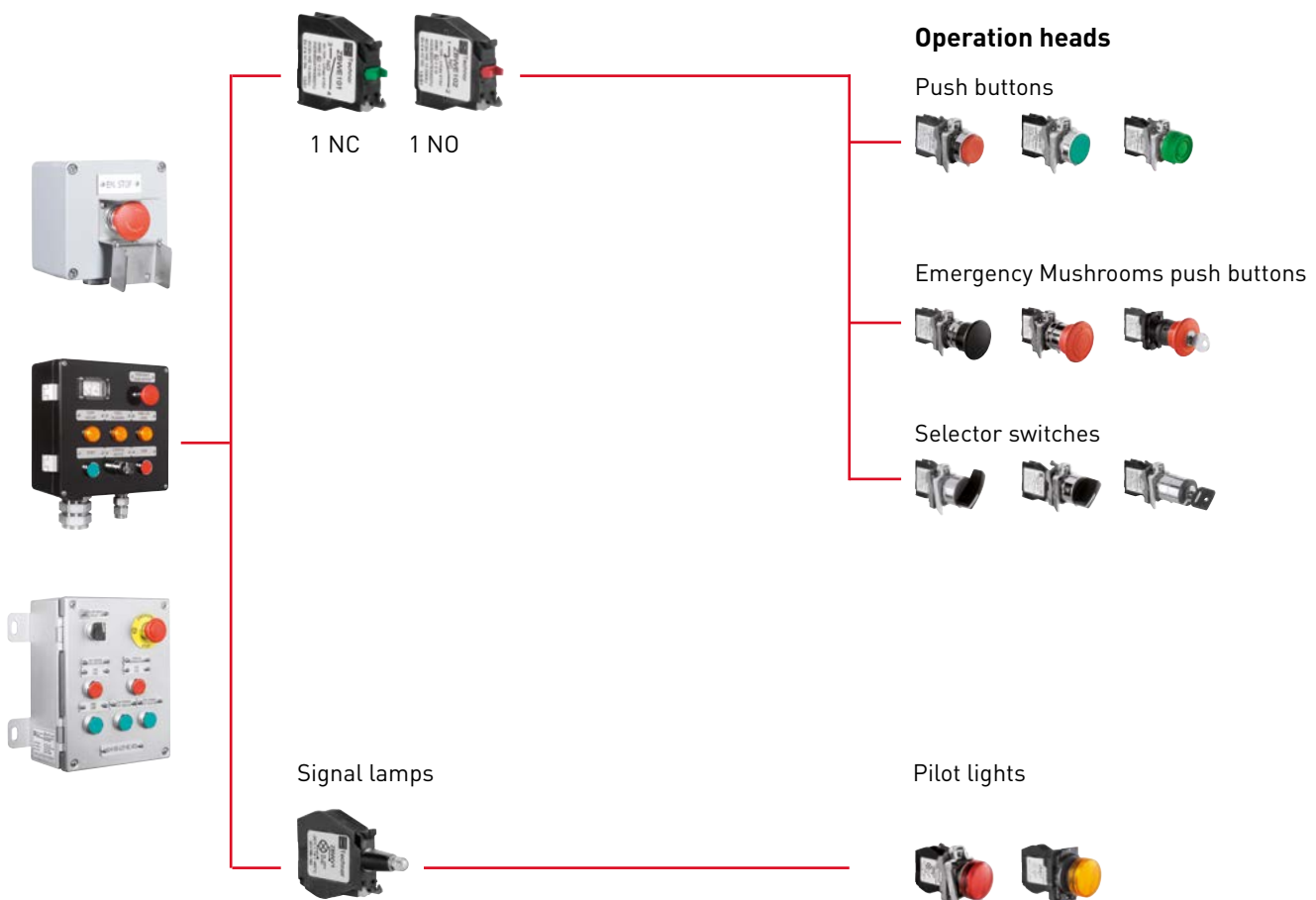
The Harmatex Series offers a large selection of contacts & operation heads suitable for Ex d enclosures:

- Momentary and push-push actuation modes;
- Standard and emergency push buttons;
- Selector switches;
- Pilot lights.

Unrivalled flexibility thanks to its modular design:

- Up to 6 contacts per operation head;
- Operating temperature: from -20°C up to +75°C

HARMATEX SERIES – CONTACTS & OPERATION HEADS

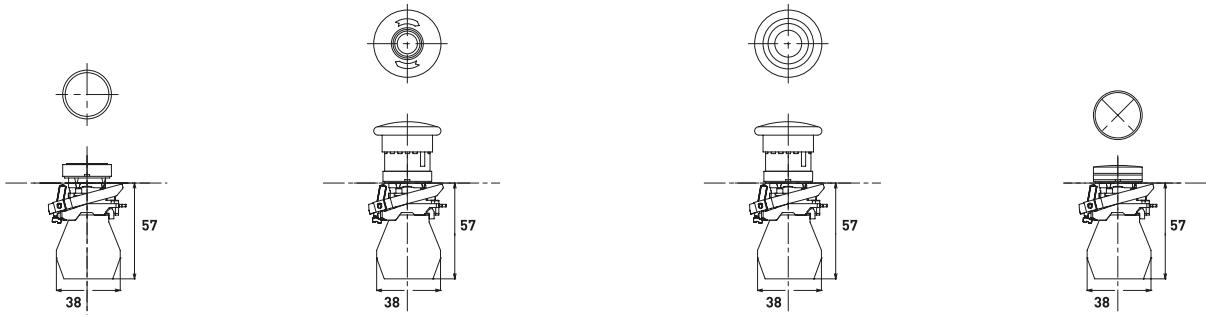


Material	Metal and plastic
IP rating	IP65/IP66
Ambient temperature range	-20°C TO 65°C -20°C TO 75°C
Approvals	Certified 02ATEX9007U (contact blocks) Certified 04ATEX9003U (pilot lamps) IECEX INE 13.0063U
Marking	II 2 GD Ex d e IIC Gb (contact blocks) Ex e mb IIC Gb (pilot lamps) Ex tb IIIC Db

INCREASED SAFETY

HARMATEX SERIES – CONTACTS & OPERATION HEADS

Dimensions HARMATEX

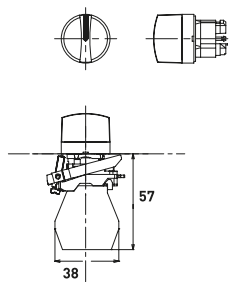


Pushbutton

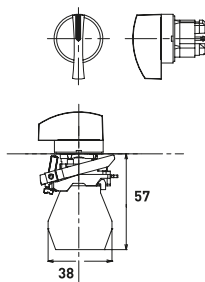
Mushroom Pushbutton
Twist to release

Emergency Stop
Mushroom Pushbutton

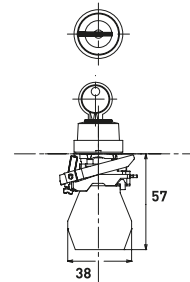
Pilot light



Selector switches
with standard handle



Selector switches
with long handle



Key selector switches

Flush push buttons



TYPE	CODE	BEZEL	COLOUR	CONTACT
XBW4BA11 - MOMENTARY PUSH BUTTON	B090601040015	METAL	WHITE	1NO
XBW4BA21 - MOMENTARY PUSH BUTTON	B090601040016	METAL	BLACK	1NO
XBW4BA22 - MOMENTARY PUSH BUTTON	B090601040020	METAL	BLACK	1NC
XBW4BA31 - MOMENTARY PUSH BUTTON	B090601040012	METAL	GREEN	1NO
XBW4BA41 - MOMENTARY PUSH BUTTON	B090601040021	METAL	RED	1NO
XBW4BA42 - MOMENTARY PUSH BUTTON	B090601040017	METAL	RED	1NC
XBW4BA51 - MOMENTARY PUSH BUTTON	B090601040018	METAL	YELLOW	1NO
XBW4BA61 - MOMENTARY PUSH BUTTON	B090601040019	METAL	BLUE	1NO

Projecting push buttons



TYPE	CODE	BEZEL	COLOUR	CONTACT
XBW4BL11 - MOMENTARY PUSH BUTTON	B090601040044	METAL	WHITE	1NO
XBW4BL21 - MOMENTARY PUSH BUTTON	B090601040031	METAL	BLACK	1NO
XBW4BL31 - MOMENTARY PUSH BUTTON	B090601040032	METAL	GREEN	1NO
XBW4BL42 - MOMENTARY PUSH BUTTON	B090601040033	METAL	RED	1NC
XBW4BL51 - MOMENTARY PUSH BUTTON	B090601040045	METAL	YELLOW	1NO
XBW4BL61 - MOMENTARY PUSH BUTTON	B090601040046	METAL	BLUE	1NO

HARMATEX SERIES – CONTACTS & OPERATION HEADS

Push buttons with silicone boot



TYPE	CODE	BEZEL	COLOUR	CONTACT
XBW4BP11S - MOMENTARY PUSH BUTTON	B090601040001	METAL	WHITE	1NO
XBW4BP21S - MOMENTARY PUSH BUTTON	B090601040002	METAL	BLACK	1NO
XBW4BP31S - MOMENTARY PUSH BUTTON	B090601040003	METAL	GREEN	1NO
XBW4BP42S - MOMENTARY PUSH BUTTON	B090601040011	METAL	RED	1NC
XBW4BP51S - MOMENTARY PUSH BUTTON	B090601040047	METAL	YELLOW	1NO
XBW4BP61S - MOMENTARY PUSH BUTTON	B090601040048	METAL	BLUE	1NO



XBW5AP11S - MOMENTARY PUSH BUTTON	B090601040004	PLASTIC	WHITE	1NO
XBW5AP21S - MOMENTARY PUSH BUTTON	B090601040005	PLASTIC	BLACK	1NO
XBW5AP31S - MOMENTARY PUSH BUTTON	B090601040006	PLASTIC	GREEN	1NO
XBW5AP42S - MOMENTARY PUSH BUTTON	B090601040007	PLASTIC	RED	1NC
XBW5AP51S - MOMENTARY PUSH BUTTON	B090601040009	PLASTIC	YELLOW	1NO
XBW5AP61S - MOMENTARY PUSH BUTTON	B090601040008	PLASTIC	BLUE	1NO

Stop mushroom push button



TYPE	CODE	BEZEL	COLOUR	CONTACT
XBW4BC21 - MOMENTARY MUSHROOM	B090601040042	METAL	BLACK	1NO
XBW4BC31 - MOMENTARY MUSHROOM	B090601040034	METAL	GREEN	1NO
XBW4BC42 - MOMENTARY MUSHROOM	B090601040010	METAL	RED	1NC
XBW4BC51 - MOMENTARY MUSHROOM	B090601040043	METAL	YELLOW	1NO
XBW4BC61 - MOMENTARY MUSHROOM	B090601040052	METAL	BLUE	1NO

XBW5AC21 - MOMENTARY MUSHROOM	B090601040038	PLASTIC	BLACK	1NO
XBW5AC31 - MOMENTARY MUSHROOM	B090601040039	PLASTIC	GREEN	1NO
XBW5AC42 - MOMENTARY MUSHROOM	B090601040036	PLASTIC	RED	1NC
XBW5AC51 - MOMENTARY MUSHROOM	B090601040040	PLASTIC	YELLOW	1NO
XBW5AC61 - MOMENTARY MUSHROOM	B090601040041	PLASTIC	BLUE	1NO

Emergency stop mushroom push buttons



TYPE	CODE	BEZEL	CONTACT
XBW4BS9442 - MUSHROOM TWIST T.R. WITH KEY	B090601040035	METAL	1NC
XBW4BS8442 - MUSHROOM TWIST T.R.	B090601040010	METAL	1NC



XBW5AS142 - MUSHROOM TWIST T.R. WITH KEY	B090601040050	PLASTIC	1NC
XBW5AS542 - MUSHROOM TWIST T.R.	B090601040049	PLASTIC	1NC

HARMATEX SERIES – CONTACTS & OPERATION HEAD

Pilot lights 24V to 254V AC/DC (current from 2 to 10mA)



TYPE	CODE	BEZEL	COLOUR
XLW4BV013 - PILOT LIGHT	B090602040001	METAL	WHITE
XLW4BV033 - PILOT LIGHT	B090602040004	METAL	GREEN
XLW4BV043 - PILOT LIGHT	B090602040003	METAL	RED
XLW4BV053 - PILOT LIGHT	B090602040005	METAL	YELLOW
XLW4BV063 - PILOT LIGHT	B090602040006	METAL	BLUE



XLW5AV013 - PILOT LIGHT	B090602040007	PLASTIC	WHITE
XLW5AV033 - PILOT LIGHT	B090602040008	PLASTIC	GREEN
XLW5AV043 - PILOT LIGHT	B090602040009	PLASTIC	RED
XLW5AV053 - PILOT LIGHT	B090602040002	PLASTIC	YELLOW
XLW5AV063 - PILOT LIGHT	B090602040012	PLASTIC	BLUE

Selector switches with standard handle



TYPE	CODE	BEZEL	POSITIONS	CONTACT
XBW4BD21 - STAY PUT	B090603040003	METAL	2	1NO
XBW4BD41 - SPRING RETURN	B090603040007	METAL	2	1NO
XBW4BD33 - STAY PUT	B090603040006	METAL	3	1NO+1NO
XBW4BD53 - SPRING RETURN TO CENTER	B090603040008	METAL	3	1NO+1NO
XBW4BD73 - SPRING RETURN FROM LEFT	B090601040009	METAL	3	1NO+1NO
XBW4BD83 - SPRING RETURN FROM RIGHT	B090603040030	METAL	3	1NO+1NO

XBW5AD21 - STAY PUT	B090603040027	PLASTIC	2	1NO
XBW5AD41 - SPRING RETURN	B090601040036	PLASTIC	2	1NO
XBW5AD33 - STAY PUT	B090603040002	PLASTIC	3	1NO+1NO
XBW5AD53 - SPRING RETURN TO CENTER	B090603040022	PLASTIC	3	1NO+1NO
XBW5AD73 - SPRING RETURN FROM LEFT	B090603040009	PLASTIC	3	1NO+1NO
XBW5AD83 - SPRING RETURN FROM RIGHT	B090601040037	PLASTIC	3	1NO+1NO

Selector switches with long handle



TYPE	CODE	BEZEL	POSITIONS	CONTACT
XBW4BJ21 - STAY PUT	B090603040017	METAL	2	1NO
XBW4BJ41 - SPRING RETURN	B090603040019	METAL	2	1NO
XBW4BJ33 - STAY PUT	B090603040018	METAL	3	1NO+1NO
XBW4BJ53 - SPRING RETURN TO CENTER	B090603040020	METAL	3	1NO+1NO
XBW4BJ73 - SPRING RETURN FROM LEFT	B090601040035	METAL	3	1NO+1NO
XBW4BJ83 - SPRING RETURN FROM RIGHT	B090603040031	METAL	3	1NO+1NO



Key selector switches

TYPE	CODE	BEZEL	POSITIONS	KEY WITHDRAWAL	CONTACT
XBW4BG21 - STAY PUT	B090603040012	METAL	2	LEFT	1NO
XBW4BG41 - STAY PUT	B090603040014	METAL	2	LEFT - RIGHT	1NO
XBW4BG61 - SPRING RETURN FROM RIGHT	B090603040016	METAL	2	LEFT	1NO
XBW4BG03 - STAY PUT	B090603040010	METAL	3	LEFT - 0 - RIGHT	1NO+1NO
XBW4BG33 - STAY PUT	B090603040013	METAL	3	0	1NO+1NO
XBW4BG53 - STAY PUT	UPON REQUEST	METAL	3	LEFT - RIGHT	1NO+1NO
XBW4BG93 - STAY PUT	UPON REQUEST	METAL	3	LEFT	1NO+1NO
XBW4BG093 - STAY PUT	UPON REQUEST	METAL	3	RIGHT	1NO+1NO
XBW4BG13 - SPRING RETURN FROM LEFT	B090603040011	METAL	3	0	1NO+1NO
XBW4BG73 - SPRING RETURN TO CENTER	B090601040034	METAL	3	0	1NO+1NO
XBW4BG83 - SPRING RETURN FROM RIGHT	B090603040015	METAL	3	0	1NO+1NO
XBW4BG083 - SPRING RETURN FROM RIGHT	B090601040033	METAL	3	LEFT	1NO+1NO

Contacts

TYPE	CODE	CONTACT
ZBWE101 - NORMALLY OPEN CONTACT	B090601040030	NO
ZBWE102 - NORMALLY CLOSE CONTACT	B090601040029	NC



Signal lamps

TYPE	CODE
ZBWW1 SPARE PILOT LIGHT BODY WHITE, RED, YELLOW, BLUE	B090602040010
ZBWW3 SPARE PILOT LIGHT BODY FOR GREEN	B090602040011



Rated operational characteristics

ITH MAX. 10A	AC-15		DC-13		Ui max. (V)
	Ue (V)	Ie max. (A)	Ue (V)	Ie max. (A)	
	120	6	24	2,87	415
	240	3	125	0,55	
	380	1,9	250	0,27	