

## B8100

ELECTRONIC HANDLES

### Material

**Type one:** Handle shank: glass reinforced polyamide PA 6, black.

Handle tube: Ø30x5mm of aluminium ALMgSi 0,5, black anodised, fine ground. Switch Functions: none, blank handle.

**Type two:** Handle shank: glass reinforced polyamide PA 6, black.

Handle tube: Ø30x5mm of aluminium ALMgSi 0,5, black anodised, fine ground. Switch functions: 2 push buttons.

**Type three:** Handle shank: glass reinforced polyamide PA 6, black.

Handle tube: Ø30x5mm of aluminium ALMgSi 0,5, black anodised, fine ground. Switch functions: two push buttons, 1

emergency stop button.

### Technical Notes

When used with connection cable no. B8880, conforms to IP65 rating. Use with door solenoid lock no. B8900 for full electronic locking of machine guards and panels.

Order No.	Type	Switch function	Coupling	a	l
B8100.AC0018	Type One	No Switch - Blank, to Act as a Counter Handle	-	220	282
B8100.AC0318	Type Two	2 Push Buttons	8-pole (M12x1)	220	282
B8100.AC0418	Type Three	2 Push Buttons, 1 Emergency Stop Button	12-pole (M12x1)	220	282



**B8100 Functional handle – electronic**

Wixroyd part no.	B8100.AC0318	B8100.AC0418
Description	2 push buttons	2 push buttons, 1 emergency stop button
Switching voltage – emergency stop button	-	1-42 V AC/DC 100 mA
Switching voltage – push buttons	24V AC/DC 1A	24V AC/DC 1A
Operating voltage LED	24 U DC	24 U DC
Connection type	8 pole, M12 x 1	12 pole, M12 x 1
Connector assignment (plug side view)		
Emergency stop buttons (2 NC contacts)	N/A	
Push button red (1 changeover contact)		
Push button green (2 NC contacts)		

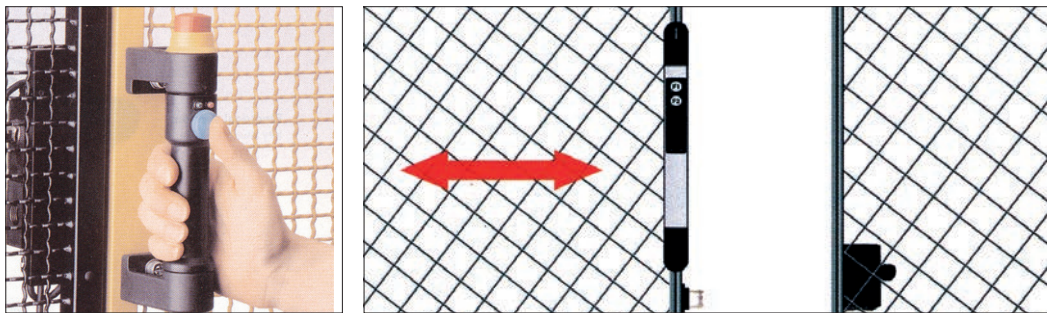


Wixroyd's functional handles **B8100 - B8900** provide the ideal combination of ergonomics, productivity and safety for machine guards, enclosures or wherever there is a machine/operator interface.

Wixroyd functional handles incorporate switching, control and monitoring functions exactly at the point they are required - namely the enclosure handle. Functional handles are mounted on the moveable part of the door/enclosure, while the additional solenoid interlock, part no. **B8900**, which enables locking and monitoring of the door condition, is mounted on the static part of the door/enclosure. All models in the series have been designed on the same basic principles and can incorporate the following functions:

- **Simple operation;** all buttons and controls on the handles are simply activated with the thumb allowing for control and opening of the guard in just one movement.
- **Deactivation of the dead lock;** each handle has a button to deactivate and unlock the dead lock, two LED's indicate whether the door is locked or unlocked.
- **Safety;** machine start and stop buttons can optionally be integrated into the handle, as well as a machine emergency stop button.
- **Modular design;** handle **B8320** has been designed on a modular basis allowing for individual programming of handle functions for your own application
- **Electromechanical locking;** in combination with our solenoid interlocking devices **B8900** our functional handles provide an electromechanical locking system for both revolving and push doors.

Basic non-functional handles available in same design to act as counter-handles.



**Programmable**  
Robust functional handles with separately programmable elements to suit any application.



**Functional**  
Functional handle with inbuilt emergency stop with 2 NC and 1 NO contacts for PLC systems.



**Ergonomic**  
Simple and ergonomic mechanically locking handles, with electrical monitoring function; for use on cabinets and enclosures.



**Inter-locking**  
Solenoid interlocks can be used to bolt doors or enclosures mechanically, with switching contacts enabling the monitoring of the lock/enclosure status.



**Release button**  
Activating the release button deactivates the dead lock and opens the safety door. Two LED's above the release button indicate to the operator whether the door is locked or unlocked.



**Emergency stop**  
Optional emergency stop button allows the operator to bring the entire machine to a stand still. The machine can then be resumed by re-setting the handle via a twist of the button. Conforms to EN418.



**Start button**  
Machine start buttons can be included in the handle to initiate the machine.



**Positioning**  
The start button can be positioned either above the door release button or when no emergency stop button is used, can be positioned on the top of the handle.

## Features