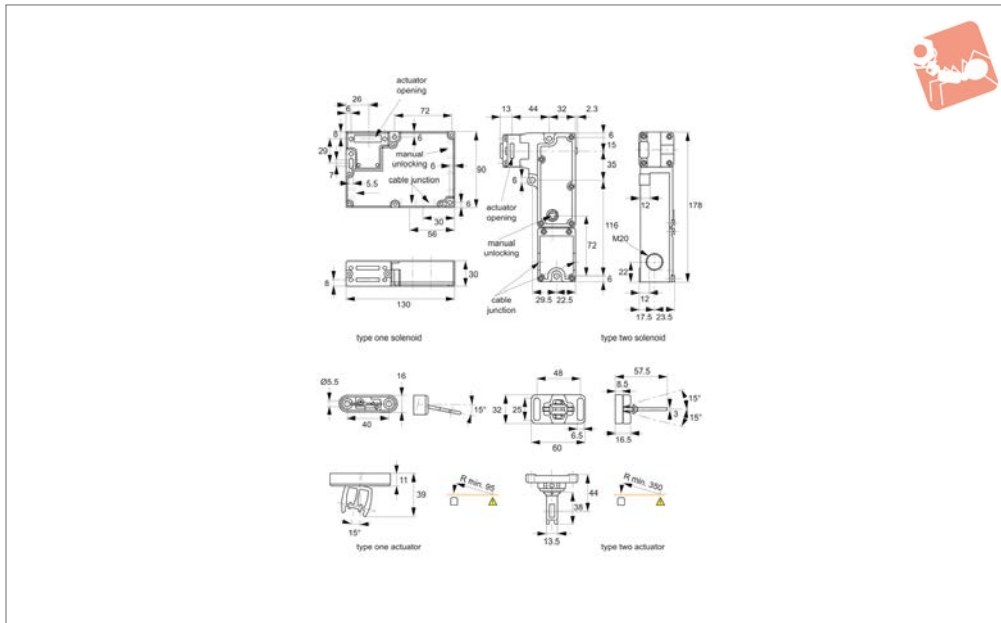




Solenoid Interlocks

for electronic functional handles B8100 to B8400

Electronic Handles



B8900

ELECTRONIC HANDLES

Material

Type one: Enclosure: glass fibre reinforced plastic.

Actuator and locking bolt: stainless steel 1.4301.

Contact material: silver.

Type two: Enclosure: glass fibre reinforced plastic.

Actuator and Locking Bolt: zinc plated steel/zinc die cast, chromated.

Contact material: silver.

Technical Notes

The switching element and actuator of the solenoid interlock are functionally separated and are only brought together on opening or closing of the door/enclosure. A latching bolt provides connection and prevents the actuator being disconnected from interlock.

Important Notes

Two interlock modes are available:

- Power to Unlock: spring pressure of the latching bolt prevents the actuator from being disconnected. When the de-interlocking coil is energised, the interlock is released and the enclosure can be opened.
- Power to Lock: operation is the reverse of the Power to Unlock mode.

Order No.	Type	Components	Modes of interlock
B8900.AC0105	Type One	Solenoid Interlock	Power to Unlock
B8900.AC0110	Type One	Solenoid Interlock	Power to Lock
B8900.AC0120	Type One	Actuator	-
B8900.AC0205	Type Two	Solenoid Interlock	Power to Unlock
B8900.AC0210	Type Two	Solenoid Interlock	Power to Lock
B8900.AC0220	Type Two	Actuator	-

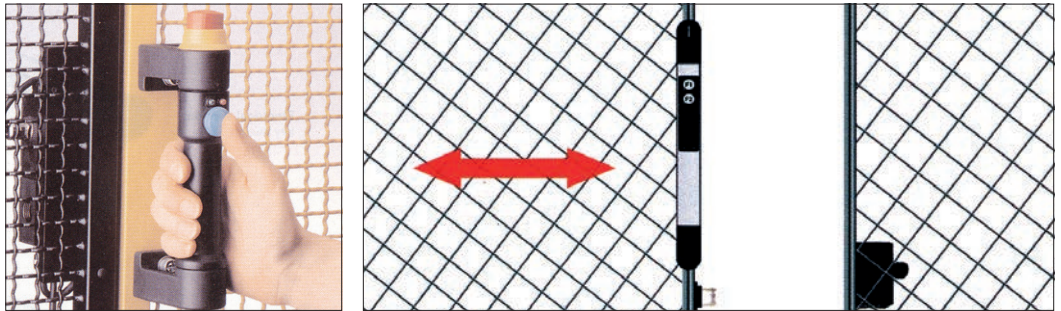


Wixroyd's functional handles **B8100 - B8900** provide the ideal combination of ergonomics, productivity and safety for machine guards, enclosures or wherever there is a machine/operator interface.

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.



Features



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.



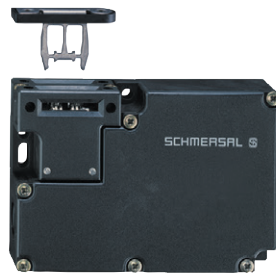
Positioning
The start button can be positioned either above the door release button or when no emergency stop button is used, can be positioned on the top of the handle.



B8900 Solenoid Interlocks

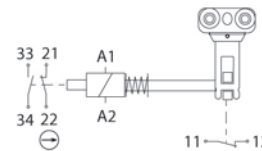
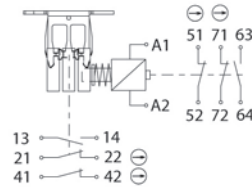
for functional handles B8100 to B8400

Swing Handles & Paddle Latches



Wixroyd part no.	B8900.AC01xx	B8900.AC02xx
Standards	IEC/EN 60947-5-1, BG-GS-ET-19, IEC 60947-5-1	IEC/EN 60947-5-1, BG-GS-ET-19, IEC 60947-5-1
Enclosure	Glass-fibre reinforced thermoplastic	Glass-fibre reinforced thermoplastic
Actuator and locking bolt	Stainless steel 1.4301	Zinc-plated steel/zinc diecast, chromated
Contact material	Silver	Silver
Protection class	IP67	IP67
Termination	Screw clamps	Screw clamps
Cable section	Max. 1.5mm ² (inc. conductor ferrules)	Max. 1.5mm ² (inc. conductor ferrules)
Cable entry	4 x M16 x 1,5	4 x M20 x 1,5
Rated impulse withstand voltage U _i	4 kV	2.5 kV
Rated insulation voltage U ₁	250 V	250 V
Thermal test current I _{the}	10 A	10 A
Rated operating current /voltage i _e /V _e	2,5 A/24 VDC	2,5 A/24 VDC
Rated control voltage U _s	24 VAC/DC	24 VDC
Ambient temperature	-25° C... to +60° C	0° C... to +50° C
Holding force F max.	2000 N	1750 N
Actuating head	3 actuator openings	Can be repositioned by 4 x 90°
Manual release	For manual unlocking by triangular key. Emergency exit device and emergency release optional available	For manual unlocking by triangular key. Emergency release optional available

Power to unlock



Power to lock

