

## FEATURES

- \* Suitable for up to 540°C (1000°F) process temperatures.
- \* Positively pressurized capsule – isolates all moving parts of the switch mechanism from the environment. Protects against corrosion, switch contact oxidation, tampering and accumulation of deposits leading to pivot hang up.
- \* Glass-to-metal feed through – internal switch contact wiring connected to wiring pins which extend through a sophisticated glass barrier. This prevents air leakage into the switch mechanism and isolates the wiring electrically.
- \* 316 construction – switch mechanism is totally enclosed in a 316 stainless steel container which is hermetically sealed using a precision pulsed TIG automatic welding machine.
- \* Terminal block/high temperature cable welded to the feed through pins, with RTV corrosion protection – Prevents shearing from vibration and extends wiring life by minimizing galvanic corrosion occurring on low voltage DC service.
- \* 305 mm (12") long exposed wiring leads – allows leads, which are numerically identified, to be easily field connected away from the switch enclosure. Eliminates the requirement to remove the enclosure cover for wiring connections and safety checks.
- \* Direct replacement for most standard Magnetrol switches.
- \* Proven magnetic coupling principle.
- \* Designed to the hermetic sealing requirements of MIL-S-8805D.
- \* BASEEFA, CENELEC, CSA and FM, approved for hazardous and non-hazardous locations.
- \* Available with SPDT or DPDT contacts, 5 A @ 240/120 V AC and 5 A resistive @ 24 V DC.
- \* Snap action switch mechanism.
- \* 5 year warranty.

## APPLICATIONS

- Feedwater heater, Hi & Lo alarm
- Primary steam drip pot
- High temperature reactors, Hi & Lo alarm
- High temperature ambient conditions
- Refinery applications
- Offshore salt atmospheres
- High temperature separators
- Paper processing H<sub>2</sub>S atmosphere
- Chemical plant corrosive atmosphere
- Pipeline applications

## The solution for corrosive and aggressive environments



**Terminal block model**



**Wiring lead model**  
(consult factory for model numbers)

**5 A hermetically sealed switches with terminal block – max. temp. in non condensing applications 290°C (550°F) ②**

Contacts	Anti corrosive coated switch enclosure	Cover type ④	5 A HS switch code / part nr.	
			Model code	Repl. partnr.
SPDT – One contact per enclosure	NEMA 4X (1" NPT entry), Aluminium	tall	HM2	89-8301-002  (qty. = 1)
	NEMA 4X (M20 x 1.5 entry), Aluminium		H7A	
	NEMA 4X (PG 16) ③, Aluminium		H6A	
	NEMA 7/9 standard (1" NPT entry), Cast iron		HS3	
	NEMA 7/9 Group B (1" NPT entry), Cast iron		HS4	
	BASEEFA (M20 x 1.5 entry), Cast iron		HB1	
	BASEEFA (3/4" NPT entry), Cast iron		HB2	
	CENELEC (M20 x 1.5 entry), Cast iron		HB3	
CENELEC (3/4" NPT entry), Cast iron	HB4			
DPDT – One contact per enclosure	NEMA 4X (1" NPT entry), Aluminium	tall	HM6	89-8301-001  (qty. = 1)
	NEMA 4X (M20 x 1.5 entry), Aluminium		H7C	
	NEMA 4X (PG 16) ③, Aluminium		H6C	
	NEMA 7/9 standard (1" NPT entry), Cast iron		HS7	
	NEMA 7/9 Group B (1" NPT entry), Cast iron		HS8	
	BASEEFA (M20 x 1.5 entry), Cast iron		HB5	
	BASEEFA (3/4" NPT entry), Cast iron		HB6	
	CENELEC (M20 x 1.5 entry), Cast iron		HB7	
CENELEC (3/4" NPT entry), Cast iron	HB8			

**1 A hermetically sealed switches with wiring leads – max. temp. in non condensing applications 540°C (1000°F) ③**

Contacts	Anti corrosive coated switch enclosure	Cover type ④	1A HS switch code / part nr.	
			Model code	Repl. partnr.
SPDT – One contact per enclosure	NEMA 4X (1" NPT entry), Aluminium	short	HKB	89-8301-015  (qty. = 1)
	NEMA 4X (M20 x 1.5 entry), Aluminium		H2B	
	NEMA 4X (PG 16), Aluminium		H3B	
	NEMA 7/9 standard (1" NPT entry), Cast iron		H8C	
	NEMA 4X (1" NPT entry), Aluminium	tall	HKH	
	NEMA 4X (M20 x 1.5 entry), Aluminium		H2H	
	NEMA 4X (PG 16), Aluminium		H3H	
	NEMA 7/9 standard (1" NPT entry), Cast iron		H8J	
NEMA 7/9 Group B (1" NPT entry), Cast iron	H8K			
SPDT – Two contacts per enclosure	NEMA 4X (1" NPT entry), Aluminium	tall	HKZ	89-8301-015  (qty. = 2)
	NEMA 4X (M20 x 1.5 entry), Aluminium		H2Z	
	NEMA 4X (PG 16), Aluminium		H3Z	
	NEMA 7/9 standard (1" NPT entry), Cast iron		H8N	
	NEMA 7/9 Group B (1" NPT entry), Cast iron		H8P	

- ① CSA approval does not apply to series H5 or HW switches.
- ② Consult factory for model codes for models with wiring leads. On condensing applications, process temperature downrated to 230°C (450°F).
- ③ Only available with wiring leads. On condensing applications, process temperature downrated to 400°C (750°F).
- ④ For exact cover height, refer to corresponding 'model' bulletin. Aluminium housings are downrated to 400°C (750°F) at non condensing conditions

**SELECTION DATA**

HS switches may be specified when purchasing new level controls; or, they may be ordered individually to replace the switch in existing level controls. When ordered as part of a new level control, use "Model code" as last part of the ten-digit model number. To replace an existing mechanism, use the "replacement part number".

When ordered as a replacement switch, the numeric ten-digit part number is used with a quantity specified. Should there be any questions regarding the correct HS switch code or part number to use, please consult your local Magnetrol representative.

**IMPORTANT:**  
Check switch temperature and ampere rating required before substituting the HS switch.



**QUALITY ASSURANCE - ISO 9001**

THE QUALITY ASSURANCE SYSTEM IN PLACE AT MAGNETROL GUARANTEES THE HIGHEST LEVEL OF QUALITY DURING THE DESIGN, THE CONSTRUCTION AND THE SERVICE OF CONTROLS. OUR QUALITY ASSURANCE SYSTEM IS APPROVED AND CERTIFIED TO ISO 9001 AND OUR TOTAL COMPANY IS COMMITTED TO PROVIDING FULL CUSTOMER SATISFACTION BOTH IN QUALITY PRODUCTS AND QUALITY SERVICE.

**PRODUCT WARRANTY**

ALL MAGNETROL MECHANICAL LEVEL CONTROLS ARE WARRANTED FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR 5 FULL YEARS FROM THE DATE OF ORIGINAL FACTORY SHIPMENT.

IF RETURNED WITHIN THE WARRANTY PERIOD; AND, UPON FACTORY INSPECTION OF THE CONTROL, THE CAUSE OF THE CLAIM IS DETERMINED TO BE COVERED UNDER THE WARRANTY; THEN, MAGNETROL INTERNATIONAL WILL REPAIR OR REPLACE THE CONTROL AT NO COST TO THE PURCHASER (OR OWNER) OTHER THAN TRANSPORTATION. MAGNETROL SHALL NOT BE LIABLE FOR MISAPPLICATION, LABOR CLAIMS, DIRECT OR CONSEQUENTIAL DAMAGE OR EXPENSE ARISING FROM THE INSTALLATION OR USE OF THE EQUIPMENT. THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED, EXCEPT, SPECIAL WRITTEN WARRANTIES COVERING SOME MAGNETROL PRODUCTS.



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**UNDER RESERVE OF MODIFICATIONS**

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