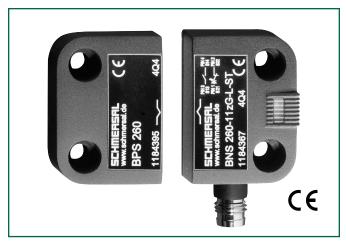
SERIES BNS260



Description

The Series BNS260 coded-magnet sensors are designed for use as a safety interlock switch on movable machine guards/articulating robot arms. Each sensor set consists of a multiple reed switch unit and a coded-magnet actuator. The reed switches, wired in series, will only close in the presence of their matched magnetic field array.

Both switch and magnet assemblies are sealed to IP67 (submersible) standards. Their tamper-resistant design prevents bypassing with a simple magnet or improperly coded magnetic field. In addition, the BNS module features a 1-meter long prewired pigtail or an available connector.

Operation

The reed switch assembly is typically mounted to a stationary portion of a guard structure, with the coded-magnet assembly mounted to the movable element of the machine guard. When the guard is closed, and the matched magnetic field aligns with the reed switch unit, the switches will close. When the guard is open, or the required magnetic-field array is not properly aligned with the reed switch assembly, the sensor output will remain "off."

Typical Applications

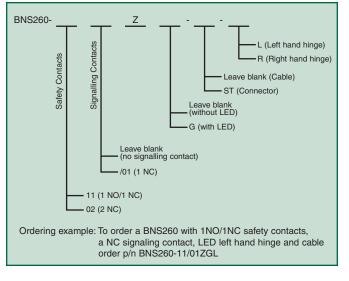


The sealed, compact BNS260 is ideal for use on movable machine guards in hostile environments. Typical applications include food processing equipment, chemical processing equipment, woodworking machinery, packaging machinery, and articulating robot arm rest position sensing.

Features & Benefits

- Compact size ... ideal for limited space applications.
- Sealed for submersibility ... assures long-term reliability in the most hostile environments.
- Tamper-resistant ... cannot be bypassed with simple magnets.
- Rugged, corrosion-resistant housing ... tolerates most industrial environments.
- Integral LED status indicators ... facilitate easy installation and provide visual indication of switch status.
- Shock and vibration tolerant ... designed to withstand mechanical abuse.
- Satisfy CE & fail-to-safe requirements ... when used with Series AES safety controllers.

AVAILABLE BNS260 CODED-MAGNET SENSORS Ordering Details (Order BPS260 Actuator below)



CODED MAGNET ACTUATORS & ACCESSORIES

Model Number	Description
BPS260-1	Standard Actuator
BPS260-2	Actuator for 90° operation
BN260	Spacer for mounting reed switch assembly on ferrous material

*Important Note: Series BNS Coded-magnet sensors are for use in safety applications only when used with a SCHMERSAL Series AES safety controller. (Please see selection chart on Page 163.)



USE WITH ANY OTHER SAFETY CONTROLLER MAY DAMAGE SENSOR AND/OR VOID WARRANTY.

MECHANICAL SPECIFICATIONS

Housing	Fiberglass reinforced thermoplastic
Switching Distance "S"*	"On": 5mm (0.2") "Off": 15mm (0.6")
Degree of Protection	IP67
Operating Temperature	-13°F to +158°F
Operating Principle	Magnetic
Shock Resistance	30g/11ms
Vibration Resistance	10 to 55 Hz, amplitude 1mm
Conformity to Standards	CE, VDE 0660 Part 209

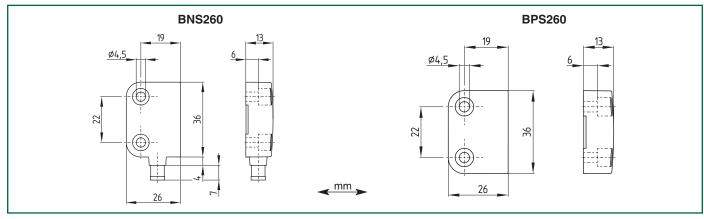
*Without ferromagnetic material in vicinity of switch or magnet. The proximity of ferrous material may affect switching distances.

DIMENSIONS

ELECTRICAL SPECIFICATIONS

Maximum Operating Voltage	75VAC/DC 24VDC for LED versions
Maximum Continuous Current Rating	400 mA without LED 10 mA with LED
Maximum Switching	10va without LED 240mW with LED
Type Connection*	1 meter long LiYY4* 0.25mm ² (23AWG) pre-wired pigtail or M8 4 or 6 pin connector (ST)

*Longer prewired cables (3M, 5M, or 10M lengths) available on request. Please consult factory.

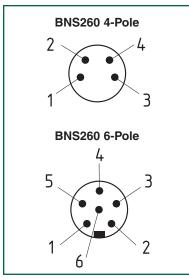


Note: BNS260 reed switch assemblies should be mounted at least 50mm (2") apart.

WIRING DETAILS (Contact configuration shown in presence of BPS260 Coded-magnet actuator)

BNS260-02z(G)	BNS260-02/01z(G)	BNS260-11z(G)	BNS260-11/01z(G)	
(3) BK S11	(3) GY S11 ↔ S12 PK (4) (1) GN S21 ↔ S22 YE (2) (5) WH S31 ↔ S32 BN (6)	(3) BK S13	(3) GY S13	Ę

QUICK-CONNECT DIAGRAMS



MISALIGNMENT ALLOWANCE

