

## Magnetic-inductive sensors

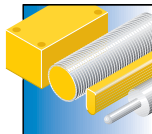


Typical applications for magnetic-inductive sensors include „pig“ detection and gate monitoring. Since magnetic-inductive sensors are actuated by external magnetic fields, they achieve large switching distances despite their small size. In combination with the actuation magnet DMR31-15-5, the M12 sensors attain a rated switching distance of 90 mm.

### Features

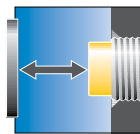
- Achieves very long ranges
- Permeates non-magnetizable materials
- ATEX and SIL approved versions
- Rugged threaded barrels
- Broad selection of actuators

### Properties



#### Designs

Threaded barrels M8 x 1 or M12 x 1



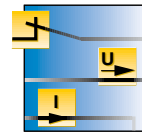
#### Switching distances

M8 sensors up to 78 mm and M12 sensors up to 90 mm, depending on the actuating magnet



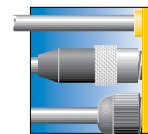
#### Materials

Rugged threaded barrels, chrome-plated brass or stainless steel



#### Electrical version

NAMUR, 2 or 3-wire DC



#### Electrical connections

Connection cable, male M8 x 1 and M12 x 1, 2 m



#### Internet link

Scan the QR code to access our products on the internet

## M8



## General data

Protection class	IP67	Switching distance	78 mm
Housing material	V2A (1.4301)	Ambient temperature	-25...+70 °C

For more details on magnetic actuators see chapter „Accessories“  
Operating distance 78 mm, in conjunction with magnet DMR31-15-5

## Types and data – selection table

Type	Connection	Operating voltage	Output	Dimensions	w	d
BIM-EG08-Y1X	2 m cable	8.2 VDC	NAMUR	Ø 8 x 41.6 mm	w080	d457
BIM-EG08-Y1X-H1341	male, M12 x 1	8.2 VDC	NAMUR	Ø 8 x 57 mm	w081	d458
BIM-EG08-AP6X	2 m cable	10...30 VDC	—, PNP	Ø 8 x 41.6 mm	w079	d457
BIM-EG08-AP6X-V1131	male, M8 x 1	10...30 VDC	—, PNP	Ø 8 x 49 mm	w064	d459
BIM-EG08-AP6X-H1341	male, M12 x 1	10...30 VDC	—, PNP	Ø 8 x 57 mm	w064	d458

Many different types available, also as NPN version, see type code

## M12



## General data

Protection class	IP67	Switching distance	90 mm
Ambient temperature	-25...+70 °C		

For more details on magnetic actuators see chapter „Accessories“  
Operating distance 90 mm, in conjunction with magnet DMR31-15-5

## Types and data – selection table

Type	Connection	Operating voltage	Output	Housing material	Dimensions	w	d
BIM-M12E-Y1X-H1141	male, M12 x 1	8.2 VDC	NAMUR	CuZn, chrome-plated	Ø 12 x 62 mm	w081	d173
BIM-EM12E-Y1X	2 m cable	8.2 VDC	NAMUR	V2A (1.4301)	Ø 12 x 64 mm	w080	d460
BIM-EM12E-AP4X-H1141	male, M12 x 1	10...65 VDC	—, PNP	V2A (1.4301)	Ø 12 x 62 mm	w064	d173
BIM-EM12E-AP4X	2 m cable	10...65 VDC	—, PNP	V2A (1.4301)	Ø 12 x 64 mm	w079	d460

Many different types available, also as NPN version, see type code