

## Pressure-resistant sensors



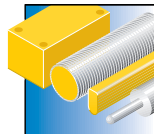
We offer pressure and high-pressure resistant sensors. The *uprox*<sup>®</sup>+ Washdown sensors resist pressures up to 20 bar, are IP68/IP69K rated and combine the unique *uprox*<sup>®</sup> advantages, such as largest switching distance and factor 1 on all metals.

The high-pressure resistant sensors are incorporated in a stainless steel housing and are ideally suited for hydraulic systems. Special seals and additional outer seals at the front as well as an O-ring enable the application in high pressure systems of up to 500 bar.

### Features

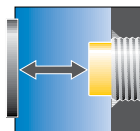
- M8 and M12 versions up to 20 bar
- M18 up to 15 bar
- M30 up to 10 bar *uprox*<sup>®</sup>+ Washdown sensors with large switching distance
- Special high pressure resistant sensors up to 500 bar

### Properties



#### Designs

Thread sizes M8 x 1, M12 x 1, M18 x 1 or M30 x 1.5



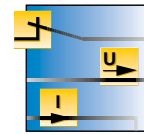
#### Switching distances

*uprox*<sup>®</sup>+ Washdown sensors up to 30 mm; high-pressure resistant sensors up to 2 mm



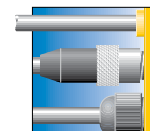
#### Materials

Stainless steel threaded barrel, shape-stable plastics for active face



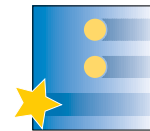
#### Electrical versions

NO, NC contact or antivalent DC output functions



#### Electrical connections

Cable or male M12



#### Special features

Factor 1 for all metals, temperature range -40...+100 °C





#### Internet link

Scan the QR code to access our products on the internet

## M8



### General data

<b>Connection</b>	male, M12 x 1	<b>Operating voltage</b>	10...30 VDC
<b>Output</b>	 , PNP	<b>Switching distance</b>	1.5 mm, 
<b>Housing material</b>	V4A (1.4404)	<b>Dimensions</b>	Ø 8 x 57 mm

Pressure-resistant up to 20 bar

### Types and data – selection table

Type		
BI1,5-EG08WD-AP6X-H1341	w013	d027

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

## M12



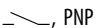

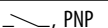

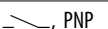

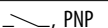

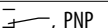

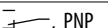



### General data

<b>Housing material</b>	V4A (1.4404)
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Pressure-resistant up to 20 bar

### Types and data – selection table

Type	Connection	Operating voltage	Output	Switching distance	Dimensions		
BI4U-EM12WD-AP6X-H1141	male, M12 x 1	10...30 VDC	 , PNP	4 mm, 	Ø 12 x 52 mm	w013	d170
NI10U-EM12WD-AP6X-H1141	male, M12 x 1	10...30 VDC	 , PNP	10 mm, 	Ø 12 x 52 mm	w013	d196
BI4U-EM12WD-AP6X	2 m cable	10...30 VDC	 , PNP	4 mm, 	Ø 12 x 52 mm	w012	d188
NI10U-EM12WD-AP6X	2 m cable	10...30 VDC	 , PNP	10 mm, 	Ø 12 x 52 mm	w012	d187
BI4U-EM12EWD-VP44X-H1141	male, M12 x 1	10...55 VDC	 , PNP	4 mm, 	Ø 12 x 62 mm	w035	d172
NI10U-EM12EWD-VP44X-H1141	male, M12 x 1	10...55 VDC	 , PNP	10 mm, 	Ø 12 x 62 mm	w035	d175

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

## M18















**General data**

**Housing material** V4A (1.4404)

Pressure-resistant up to 15 bar

**Types and data – selection table**

Type	Connection	Operating voltage	Output	Switching distance	Dimensions	w	d
BI8U-EM18WD-AP6X-H1141	male, M12 x 1	10...30 VDC	 , PNP	8 mm, 	Ø 18 x 52 mm	w013	d202
NI15U-EM18WD-AP6X-H1141	male, M12 x 1	10...30 VDC	 , PNP	15 mm, 	Ø 18 x 52 mm	w013	d225
BI8U-EM18WD-AP6X	2 m cable	10...30 VDC	 , PNP	8 mm, 	Ø 18 x 52 mm	w012	d227
NI15U-EM18WD-AP6X	2 m cable	10...30 VDC	 , PNP	15 mm, 	Ø 18 x 52 mm	w012	d228
BI8U-EM18MWD-VP44X-H1141	male, M12 x 1	10...55 VDC	 , PNP	8 mm, 	Ø 18 x 61.5 mm	w035	d212
NI15U-EM18MWD-VP44X-H1141	male, M12 x 1	10...55 VDC	 , PNP	15 mm, 	Ø 18 x 61.5 mm	w035	d214

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

## M18 – High pressure resistant




**General data**

**Operating voltage** 10...30 VDC

**Switching distance** 2 mm, 

**Dimensions** Ø 18 x 58 mm

**Output** , PNP

**Housing material** V2A (1.4305)

Pressure resistant up to 500 bar (S212) resp. 100 bar (S220)

**Types and data – selection table**

Type	Connection	w	d
BID2-G180-AP6-H1141/S220	male, M12 x 1	w013	d389
BID2-G180-AP6-H1141/S212	male, M12 x 1	w013	d389
BID2-G180-AP6/S220	2 m cable	w012	d390
BID2-G180-AP6/S212	2 m cable	w012	d390

## M30















### General data

**Housing material** V4A (1.4404)      **Ambient temperature** -40...+100 °C

Pressure-resistant up to 10 bar

### Types and data – selection table

Type	Connection	Operating voltage	Output	Switching distance	Dimensions	w	d
BI15U-EM30WD-AP6X-H1141	male, M12 x 1	10...30 VDC	 , PNP	15 mm, 	Ø 30 x 62 mm	w013	d243
NI30U-EM30WD-AP6X-H1141	male, M12 x 1	10...30 VDC	 , PNP	30 mm, 	Ø 30 x 62 mm	w013	d258
BI15U-EM30WD-AP6X	2 m cable	10...30 VDC	 , PNP	15 mm, 	Ø 30 x 66 mm	w012	d260
NI30U-EM30WD-AP6X	2 m cable	10...30 VDC	 , PNP	30 mm, 	Ø 30 x 66 mm	w012	d368
BI15U-EM30WD-VP44X-H1141	male, M12 x 1	10...55 VDC	 , PNP	15 mm, 	Ø 30 x 62 mm	w035	d243
NI30U-EM30WD-VP44X-H1141	male, M12 x 1	10...55 VDC	 , PNP	30 mm, 	Ø 30 x 62 mm	w035	d258

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