

# uprox®+ PTFE-coated sensors for the automotive industry

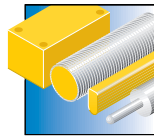


Harsh production environments of the automotive industry require uprox®+ sensors in PTFE-coated threaded barrels. The PTFE coating protects efficiently against weld splatter and drill cuttings. The non-ferrous coil system make the sensors resistant to strong magnetic fields.

## Features

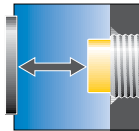
- PTFE coating
- High magnetic field immunity
- Excellent EMC properties
- Factor 1 for all metals
- Highest switching distance

## Properties



### Designs

Threaded barrel versions  
M8 x 1, M12 x 1, M18 x 1 and  
M30 x 1.5



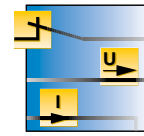
### Switching distances

From 2 mm flush to 30 mm  
non-flush, on all metals



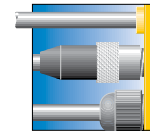
### Materials

TF80i coating protects  
against weld splatter or drill  
cuttings



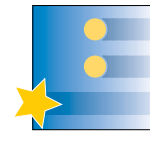
### Electrical version

2/3-wire NO contact, PNP  
and NPN



### Electrical connections

Male M12 x 1, or cable with  
male end M12 x 1



### Special features

Protection class IP68; ap-  
proved for almost all auto-  
motive plants





### Internet link

Scan the QR code to access  
our products on the internet





## EG08



### General data

<b>Connection</b>	male, M12 x 1	<b>Operating voltage</b>	10...30 VDC
<b>Output</b>	 , PNP	<b>Housing material</b>	V2A (1.4301)-T
<b>Operating current [mA]</b>	150, 	<b>Dimensions</b>	Ø 8 x 57 mm




### Types and data – selection table

Type	Switching distance	Ambient temperature		
BI2U-EGT08-AP6X-H1341	2 mm, 	-30...+85 °C	w002	d027
NI6U-EGT08-AP6X-H1341	6 mm, 	-25...+70 °C	w002	d056

## M12 – 2-wire DC



### General data

<b>Connection</b>	0.3 m Cable with connector, M12 x 1	<b>Operating voltage</b>	10...65 VDC
<b>Output</b>	 , 2-wire	<b>Switching distance</b>	2 mm, 
<b>Housing material</b>	CuZn-T	<b>Operating current [mA]</b>	100, 
<b>Ambient temperature</b>	0...+70 °C	<b>Dimensions</b>	Ø 12 x 64 mm

### Types and data – selection table

Type		
BI2U-MT12E-AD4X-0,3-RS4.23/XOR	w004	d057

## M12 – 3-wire DC



### General data

<b>Connection</b>	male, M12 x 1	<b>Operating voltage</b>	10...30 VDC
<b>Output</b>	— —, PNP	<b>Housing material</b>	CuZn-T
<b>Operating current [mA]</b>	200, (K)	<b>Ambient temperature</b>	-30...+85 °C
<b>Dimensions</b>	Ø 12 x 52 mm		

### Types and data – selection table

Type	Switching distance	w	d
BI4U-MT12-AP6X-H1141	4 mm,	w002	d058
NI10U-MT12-AP6X-H1141	10 mm,	w002	d059

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

## M18 – 2-wire DC



### General data

<b>Operating voltage</b>	10...65 VDC	<b>Output</b>	— —, 2-wire
<b>Housing material</b>	CuZn-T	<b>Operating current [mA]</b>	100, (K)
<b>Ambient temperature</b>	-25...+70 °C		

### Types and data – selection table

Type	Connection	Switching distance	Dimensions	w	d
BI5U-MT18M-AD4X-H1144	male, M12 x 1	5 mm,	Ø 18 x 61.5 mm	w004	d044
BI5U-MT18M-AD4X-0,3-RS4.23/XOR	0.3 m Cable with connector, M12 x 1	5 mm,	Ø 18 x 64 mm	w004	d060
NI10U-MT18M-AD4X-H1144	male, M12 x 1	10 mm,	Ø 18 x 61.5 mm	w004	d061

## M18 – 3-wire DC



### General data

<b>Connection</b>	male, M12 x 1	<b>Operating voltage</b>	10...30 VDC
<b>Output</b>	—, PNP	<b>Housing material</b>	CuZn-T
<b>Operating current [mA]</b>	200, (K)	<b>Ambient temperature</b>	-30...+85 °C
<b>Dimensions</b>	Ø 18 x 52 mm		

### Types and data – selection table

Type	Switching distance	w	d
BI8U-MT18-AP6X-H1141	8 mm,	w002	d062
NI15U-MT18-AP6X-H1141	15 mm,	w002	d063

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

## M30 – 2-wire DC



### General data

<b>Operating voltage</b>	10...65 VDC	<b>Output</b>	—, 2-wire
<b>Housing material</b>	CuZn-T	<b>Operating current [mA]</b>	100, (K)
<b>Ambient temperature</b>	-25...+70 °C		

### Types and data – selection table

Type	Connection	Switching distance	Dimensions	w	d
BI10U-MT30-AD4X-H1144	male, M12 x 1	10 mm,	Ø 30 x 62 mm	w004	d064
BI10U-MT30-AD4X-0,3-RS4.23/XOR	0.3 m Cable with connector, M12 x 1	10 mm,	Ø 30 x 64 mm	w004	d065
NI15U-MT30-AD4X-H1144	male, M12 x 1	15 mm,	Ø 30 x 62 mm	w004	d066

## M30 – 3-wire DC



### General data

<b>Connection</b>	male, M12 x 1	<b>Operating voltage</b>	10...30 VDC
<b>Output</b>	—, PNP	<b>Housing material</b>	CuZn-T
<b>Operating current [mA]</b>	200, (K)	<b>Ambient temperature</b>	-30...+85 °C
<b>Dimensions</b>	Ø 30 x 62 mm		

### Types and data – selection table

Type	Switching distance	w	d
BI15U-MT30-AP6X-H1141	15 mm, 	w002	d064
NI30U-MT30-AP6X-H1141	30 mm, 	w002	d066

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

