# *uprox*®+ For the food industry

The *uprox*®+ sensors for the food industry feature a rugged V4A stainless steel housing with laser-engraved type label and resist temperatures of -40 °C to +100 °C easily. A special double lip seal prevents the ingress of liquids. The materials used are resistant to detergents and disinfectants. The fluid-tight housing and the excellent EMC properties of the electronics ensure failsafe operation in harsh industrial production environments.
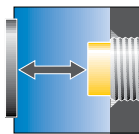
Features

- High tightness and resistance
- Factor 1, all metals
- Rugged stainless steel housing
- High protection classes IP68 and IP69K
- Highest switching distance

Properties
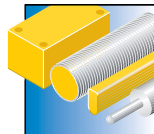
Designs
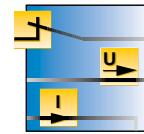Threaded barrel M12 x 1, M18 x 1 and M30 x 1.5

Electrical versions
3-wire NO contact, PNP and NPN

Switching distances
From 4 mm flush to 30 mm non-flush, on all metals
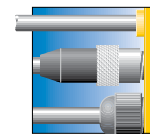
Electrical connections
2 m cable, male M12 x 1 or terminal chamber

Materials
Rugged V4A stainless steel housing, Chemical-resistant LCP front cap, sealed PP connector insert
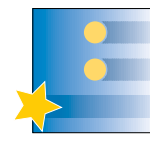
Special features
High protection classes IP68 and IP69K, laser-engraved type code; Ecolab certificate

Internet link
Scan the QR code to access our products on the internet

M12

General data

Operating voltage	10…30 VDC	**Output**	—⌐, PNP
Housing material	V4A (1.4404)	**Operating current [mA]**	200, Ⓚ
Ambient temperature	-40…+100 °C		

Pressure-resistant up to 20 bar

Types and data – selection table

Type	Connection	Switching distance	Dimensions	w	d
BI4U-EM12WDTC-AP6X	Terminal chamber, Removable cage clamp terminals	4 mm,	Ø 12 x 80 mm	w006	d067
BI4U-EM12WD-AP6X	2 m cable	4 mm,	Ø 12 x 52 mm	w001	d068
BI4U-EM12WD-AP6X-H1141	male, M12 x 1	4 mm,	Ø 12 x 52 mm	w002	d037
NI10U-EM12WDTC-AP6X	Terminal chamber, Removable cage clamp terminals	10 mm,	Ø 12 x 80 mm	w006	d069
NI10U-EM12WD-AP6X	2 m cable	10 mm,	Ø 12 x 52 mm	w001	d070
NI10U-EM12WD-AP6X-H1141	male, M12 x 1	10 mm,	Ø 12 x 52 mm	w002	d071

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

M18

General data

Operating voltage	10…30 VDC	**Output**	—⌐, PNP
Housing material	V4A (1.4404)	**Operating current [mA]**	200, Ⓚ
Ambient temperature	-40…+100 °C		

Pressure-resistant up to 15 bar

Types and data – selection table

Type	Connection	Switching distance	Dimensions	w	d
BI8U-EM18WDTC-AP6X	Terminal chamber, Removable cage clamp terminals	8 mm,	Ø 18 x 81 mm	w006	d072
BI8U-EM18WD-AP6X	2 m cable	8 mm,	Ø 18 x 52 mm	w001	d073
BI8U-EM18WD-AP6X-H1141	male, M12 x 1, M12 push-pull compatible	8 mm,	Ø 18 x 52 mm	w002	d048
NI15U-EM18WDTC-AP6X	Terminal chamber, Removable cage clamp terminals	15 mm,	Ø 18 x 81 mm	w006	d074
NI15U-EM18WD-AP6X	2 m cable	15 mm,	Ø 18 x 52 mm	w001	d075
NI15U-EM18WD-AP6X-H1141	male, M12 x 1, M12 push-pull compatible	15 mm,	Ø 18 x 52 mm	w002	d076

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

W Wiring diagrams on page 658   d Dimension drawing on page 670   Accessories on page 560

M30

General data

Operating voltage	10…30 VDC	**Output**	⌐‿, PNP
Housing material	V4A (1.4404)	**Operating current [mA]**	200, Ⓚ
Ambient temperature	-40…+100 °C		

Pressure-resistant up to 10 bar

Types and data – selection table

Type	Connection	Switching distance	Dimensions	w	d
BI15U-EM30WDTC-AP6X	Terminal chamber, Removable cage clamp terminals	15 mm,	Ø 30 x 95 mm	w006	d077
BI15U-EM30WD-AP6X	2 m cable	15 mm,	Ø 30 x 66 mm	w001	d078
BI15U-EM30WD-AP6X-H1141	male, M12 x 1	15 mm,	Ø 30 x 62 mm	w002	d053
NI30U-EM30WDTC-AP6X	Terminal chamber, Removable cage clamp terminals	30 mm,	Ø 30 x 95 mm	w006	d079
NI30U-EM30WD-AP6X	2 m cable	30 mm,	Ø 30 x 66 mm	w001	d080
NI30U-EM30WD-AP6X-H1141	male, M12 x 1	30 mm,	Ø 30 x 62 mm	w002	d081

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