High-End Series – Cylindrical Design

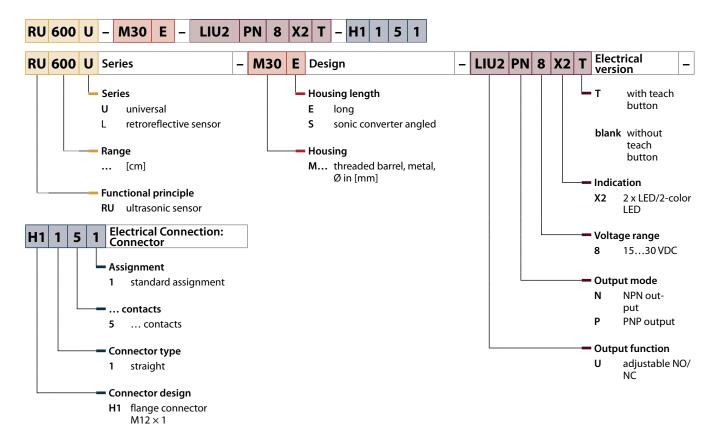


The high-end variant offers universal possibilities for adjustment and adaptation also to the most difficult application conditions. Operation as a diffuse mode, retroreflective or opposed mode sensor is possible, as well as the synchronization of multiple sensors to protect against mutual interference. On demand, process values can be transferred directly or settings changed during operation via IO-Link. The presence of the objects is typically emitted via the switching output and the distance via the analog output. Highest accuracy can be achieved through the possibility to adjust the temperature compensation.

Features

- Large measuring range
- Short blind zone
- Robust mechanics thanks to metal housing and metal connector
- Front-flush diaphragm
- Easy teaching via pin 5 or button
- IO-Link
- Temperature compensation

Type code





High-End Series – M18 – Universal – Switching/Measuring

| | General data | | | |
|--|------------------------------|----------------------------------|---------------------|--------------------------------------|
| | Operating mode | Diffuse mode ultrasonic sensor | Housing material | Metal, CuZn, nickel- plated |
| | Operating voltage | 15 30 VDC | Transducer material | Plastic, Epoxyd resir and PU foam |
| | DC rated operational current | ≤ 150 mA | Connection | connector, M12 x 1 |
| | Configuration | via pin 5, button or IO-Link | Protection class | IP67 |
| | Output 1 | Switching output or IO-Link mode | Ambient temperature | -25+70 °C |
| | Output 2 | Analog output | Temperature drift | ± 1.5 % of full scale |
| | IO-Link Specification | V 1.1 | | _ |

Types and Data – Selection table

| Туре | ldent no. | Range [cm] | Radiation direction |
|-------------------------------|-----------|----------------------|---------------------|
| RU40U-M18E-LIU2PN8X2T-H1151 | 1610024 | 2.540 | straight |
| RU40U-M18ES-LIU2PN8X2T-H1151 | 1610025 | 2.540 | side |
| RU130U-M18E-LIU2PN8X2T-H1151 | 1610026 | 15130 | straight |
| RU130U-M18ES-LIU2PN8X2T-H1151 | 1610027 | 15130 | side |

Switchable between diffuse mode, retroreflective mode and PNP/NPN

High-End Series – M30 – Universal – Switching/Measuring

| | General data | | | |
|--|------------------------------|----------------------------------|---------------------|--------------------------------------|
| | Operating mode | Diffuse mode ultrasonic sensor | Housing material | Metal, CuZn, nickel- plated |
| | Operating voltage | 15 30 VDC | Transducer material | Plastic, Epoxyd resin and PU foam |
| | DC rated operational current | ≤ 150 mA | Connection | connector, M12 x 1 |
| | Configuration | via pin 5, button or IO-Link | Radiation direction | straight |
| | Output 1 | Switching output or IO-Link mode | Protection class | IP67 |
| | Output 2 | Analog output | Temperature drift | ± 1.5 % of full scale |
| | IO-Link Specification | V 1.1 | | |

Types and Data - Selection table

| Туре | ldent no. | Range [cm] | Ambient temperature [°C] |
|------------------------------|-----------|---------------|--------------------------|
| RU130U-M30E-LIU2PN8X2T-H1151 | 1610046 | 15130 | -25+70 |
| RU300U-M30E-LIU2PN8X2T-H1151 | 1610048 | 30300 | -25+70 |
| RU600U-M30E-LIU2PN8X2T-H1151 | 1610049 | 60600 | -25+50 |

Switchable between diffuse mode, retroreflective mode and PNP/NPN $\,$

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High-End Series – Cylindrical Design for Hazardous Areas

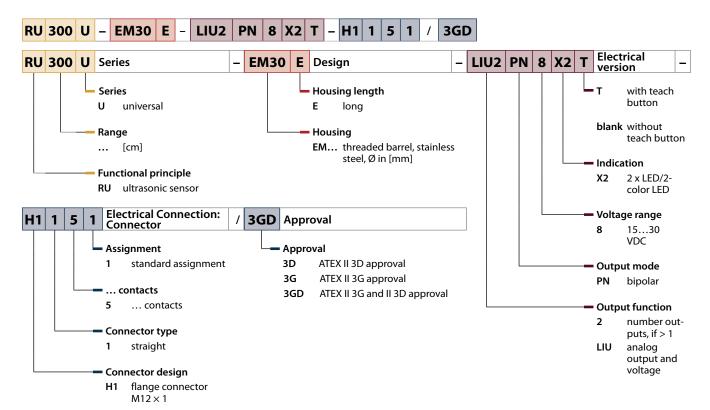


Also for use in hazardous areas, the highend series provides a selection of cylindrical sensors with universal possibilities for adjustment and adaptation to various application conditions. Operation as a diffuse mode, retroreflective or opposed mode sensor is possible, as well as the synchronization of multiple sensors to protect against mutual interference. On demand, process values can be transferred directly or settings changed during operation via IO-Link. The presence of the objects is typically emitted via the switching output and the distance via the analog output. Highest accuracy can be achieved through the possibility to adjust the temperature compensation.

Features

- Large measuring range
- Short blind zone
- Robust mechanics thanks to stainless steel housing
- Front-flush diaphragm
- Easy teaching via pin 5 or button
- IO-Link
- Temperature compensation
- Suitable for the Ex zones 2 and 22

Type code





High-End Series – M18 – Universal – Switching/Measuring

| | General data | | | | | |
|--|------------------------------|---------------------------------------|---------------------|-----------------------------------|--|--|
| | Operating mode | Diffuse mode ultrasonic sensor | Transducer material | Plastic, Epoxyd resin and PU foam | | |
| | Operating voltage | 15 30 VDC | Connection | connector, M12 x 1 | | |
| | DC rated operational current | ≤ 150 mA | Radiation direction | straight | | |
| | Configuration | via pin 5, button or IO-Link | Protection class | IP67 | | |
| | Output 1 | Switching output or IO-Link mode | Ambient temperature | -25+70 °C | | |
| | Output 2 | Analog output | Temperature drift | ± 1.5 % of full scale | | |
| | IO-Link Specification | V 1.1 | Device designation | II 3 GD | | |
| | Housing material | Stainless steel 1.4404 (AISI 316L) | | | | |
| | | | | | | |

Types and Data - Selection table

| Туре | ldent no. | Range [cm] |
|-----------------------------------|-----------|---------------|
| RU40U-EM18E-LIU2PN8X2T-H1151/3GD | 1610071 | 2.540 |
| RU130U-EM18E-LIU2PN8X2T-H1151/3GD | 1610072 | 15130 |

Switchable between diffuse mode, retroreflective mode and PNP/NPN

High-End Series – M30 – Universal – Switching/Measuring

| | General data | | | |
|--|------------------------------|----------------------------------|---------------------|---------------------------------------|
| | Operating mode | Diffuse mode ultrasonic sensor | Housing material | Stainless steel 1.4404 (AISI 316L) |
| | Operating voltage | 15 30 VDC | Transducer material | Plastic, Epoxyd resin and PU foam |
| | DC rated operational current | ≤ 150 mA | Connection | connector, M12 x 1 |
| | Configuration | via pin 5, button or IO-Link | Radiation direction | straight |
| | Output 1 | Switching output or IO-Link mode | Protection class | IP67 |
| | Output 2 | Analog output | Temperature drift | ± 1.5 % of full scale |
| | IO-Link Specification | V 1.1 | Device designation | II 3 GD |

Types and Data - Selection table

| Туре | Ident no. | Range [cm] | Ambient temperature [°C] |
|-----------------------------------|-----------|---------------|--------------------------|
| RU130U-EM30E-LIU2PN8X2T-H1151/3GD | 1610073 | 15130 | -25+70 |
| RU300U-EM30E-LIU2PN8X2T-H1151/3GD | 1610074 | 30300 | -25+70 |
| RU600U-EM30E-LIU2PN8X2T-H1151/3GD | 1610075 | 60600 | -25+50 |

Switchable between diffuse mode, retroreflective mode and PNP/NPN $\,$

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