

Miniature Sensors – Cylindrical Design



The smallest ultrasonic sensors in the M8 threaded housing are available in four versions, as screens or barriers, each with PNP or NPN interfaces. The sensors have a range of 100 millimeters and a blind zone of only 20 millimeters.

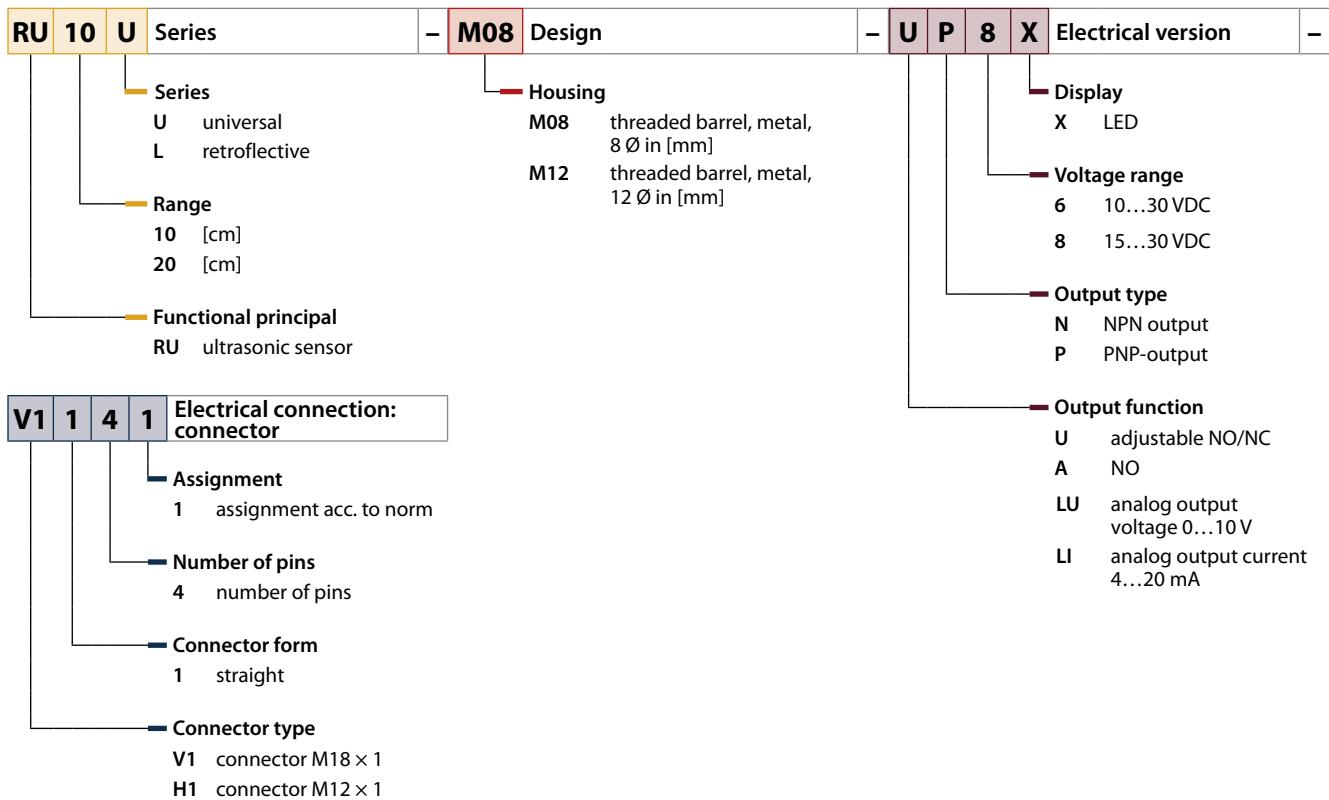
The ultrasonic sensors in the M12 threaded housing are available in six variants, four types with analog output and two variants with switching output. The ultrasonic sensors with switching output also have integrated IO-Link functionality. The sensors have a range of 200 or 400 millimeters, the blind zones are small in both cases and are just 20 or 40 millimeters.

Features

- Large measuring range
- Short blind zone
- Robust mechanics thanks to metal housing and metal plug
- Use in confined environments
- IO-Link
- Teach-Function via PIN 2 or PIN 4

Type Code

RU 10 U – M08 – U P 8 X – V1 1 4 1



Miniature sensor M8 – Diffuse Mode/Mode – Switching



General data			
Operating voltage	18...30 VDC	Transducer material	Plastic, epoxy resin and PU-foam
DC rated operating current	≤ 150 mA	Connection	Connector M8 x 1
Ambient temperature	0...+50 °C	Protection class	IP67
Housing material	Metal, CuZn, nickel-plated	Temperature drift	± 1.5 % of full scale

Types and Data – Selection table

Type	Ident. no.	Operating mode	Output function
RU10U-M08-UP8X-V1141	100003157	Diffuse	PNP, IO-Link
RU10U-M08-UN8X-V1141	100003158	Diffuse	NPN, IO-Link
RU10L-M08-UP8X-V1141	100003159	Retroreflective	PNP, IO-Link
RU10L-M08-UN8X-V1141	100003160	Retroreflective	NPN, IO-Link

Miniature sensor M12 – Diffuse Mode – Switching



General data			
Operating mode	Ultrasonic diffuse mode	Transducer material	Plastic, epoxy resin and PU-foam
Operating voltage	10...30 VDC (AP) 15...30 VDC (LI/LU)	Connection	Connector, M12 x 1
DC rated operating current	≤ 150 mA	Protection class	IP67
Ambient temperature	10...+60 °C	Temperature drift	± 1.5 % of full scale
Housing material	Metall, CuZn, nickel-plated		

Types and Data – Selection table

Type	Ident. no.	Range [cm]	Output function
RU20U-M12-AP6X2-H1141	100000278	2...20	PNP, IO-Link
RU40U-M12-AP6X2-H1141	100000279	2.5...40	PNP, IO-Link
RU20U-M12-LI8X2-H1141	100000280	2...20	4...20 mA
RU40U-M12-LI8X2-H1141	100000281	2.5...40	4...20 mA
RU20U-M12-LU8X2-H1141	100000282	2...20	0...10 V
RU40U-M12-LU8X2-H1141	100000283	2.5...40	0...10 V