

# Compact Series – Cylindrical Design

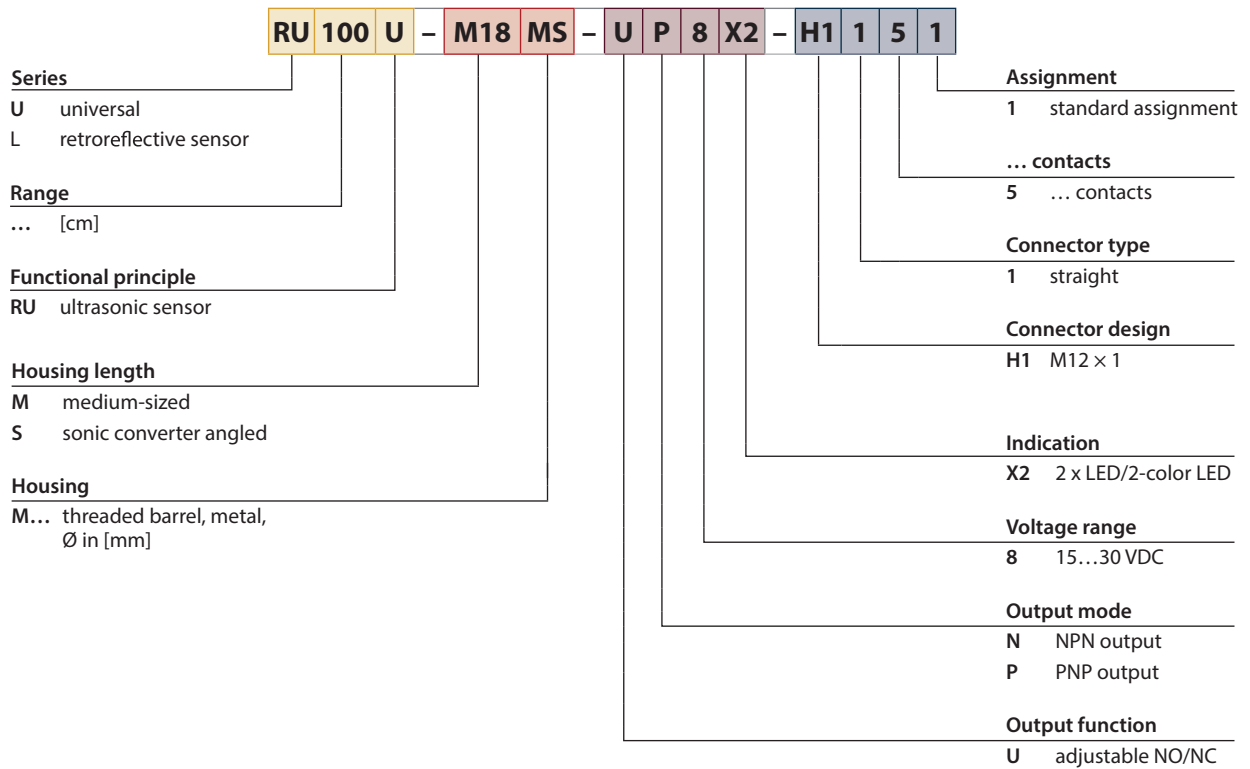


The very robust compact variant offers ranges up to 100 cm and is available in straight and angled design. The compact devices are especially suited for use in applications with restricted installation conditions. Little installation effort and high availability make commissioning and maintenance easier for the user.

### Features

- Large measuring range
- Short blind zone
- Robust mechanics thanks to metal housing and metal connector
- Front-flush diaphragm
- Easy teaching via pin 2 or pin 5
- Short design

### Type code



## Compact Series – M18 – Diffuse Mode – Switching



General data			
<b>Operating mode</b>	Diffuse mode ultrasonic sensor	<b>Transducer material</b>	Plastic, Epoxyd resin and PU foam
<b>Operating voltage</b>	15... 30 VDC	<b>Connection</b>	M12 x 1
<b>DC rated operational current</b>	≤ 150 mA	<b>Protection class</b>	IP67
<b>Configuration</b>	via pin 2 or pin 5	<b>Ambient temperature</b>	-25 ...+70 °C
<b>Output 1</b>	Switching output	<b>Temperature drift</b>	± 1.5 % of full scale
<b>Housing material</b>	Metal, CuZn, nickel-plated		

### Types and Data – Selection table

Type	Ident no.	Range [cm]	Output Function	Radiation direction
RU40U-M18M-UP8X2-H1151	1610008	2.5...40	PNP	straight
RU40U-M18MS-UP8X2-H1151	1610009	2.5...40	PNP	side
RU40U-M18M-UN8X2-H1151	1610080	2.5...40	NPN	straight
RU40U-M18MS-UN8X2-H1151	1610082	2.5...40	NPN	side
RU100U-M18M-UP8X2-H1151	1610010	15...100	PNP	straight
RU100U-M18MS-UP8X2-H1151	1610011	15...100	PNP	side
RU100U-M18M-UN8X2-H1151	1610081	15...100	NPN	straight
RU100U-M18MS-UN8X2-H1151	1610083	15...100	NPN	side

## Compact Series – M18 – Retroreflective – Switching



General data			
<b>Operating mode</b>	Retroreflective ultrasonic sensor	<b>Transducer material</b>	Plastic, Epoxyd resin and PU foam
<b>Operating voltage</b>	15... 30 VDC	<b>Connection</b>	M12 x 1
<b>DC rated operational current</b>	≤ 150 mA	<b>Protection class</b>	IP67
<b>Configuration</b>	via pin 2 or pin 5	<b>Ambient temperature</b>	-25 ...+70 °C
<b>Output 1</b>	Switching output	<b>Temperature drift</b>	± 1.5 % of full scale
<b>Housing material</b>	Metal, CuZn, nickel-plated		

### Types and Data – Selection table

Type	Ident no.	Range [cm]	Output Function	Radiation direction
RU40L-M18M-UP8X2-H1151	1610076	2.5...40	PNP	straight
RU40L-M18MS-UP8X2-H1151	1610078	2.5...40	PNP	side
RU40L-M18M-UN8X2-H1151	1610084	2.5...40	NPN	straight
RU40L-M18MS-UN8X2-H1151	1610086	2.5...40	NPN	side
RU100L-M18M-UP8X2-H1151	1610077	15...100	PNP	straight
RU100L-M18MS-UP8X2-H1151	1610079	15...100	PNP	side
RU100L-M18M-UN8X2-H1151	1610085	15...100	NPN	straight

Compact Series – M18 – Diffuse Mode – Measuring



**General data**

<b>Operating mode</b>	Diffuse mode ultrasonic sensor	<b>Transducer material</b>	Plastic, Epoxyd resin and PU foam
<b>Operating voltage</b>	15... 30 VDC	<b>Connection</b>	M12 x 1
<b>DC rated operational current</b>	≤ 150 mA	<b>Protection class</b>	IP67
<b>Configuration</b>	via pin 2 or pin 5	<b>Ambient temperature</b>	-25 ...+70 °C
<b>Output Function</b>	Frequency	<b>Temperature drift</b>	± 1.5 % of full scale
<b>Housing material</b>	Metal, CuZn, nickel-plated		

**Types and Data – Selection table**

Type	Ident no.	Range [cm]	Radiation direction
RU40U-M18M-LFX-H1151	1610021	2.5...40	straight
RU40U-M18MS-LFX-H1151	1610019	2.5...40	side
RU100U-M18M-LFX-H1151	1610022	15...100	straight
RU100U-M18MS-LFX-H1151	1610020	15...100	side

