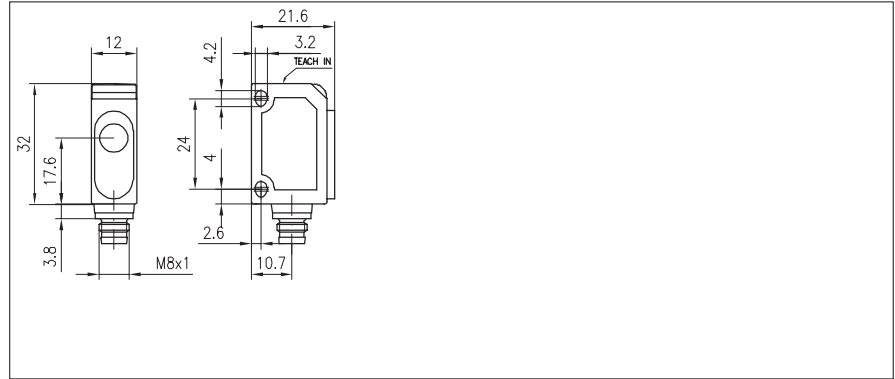




Ultrasonic sensors

Smallest ultrasonic sensor in cubicle housing
 Precise detection
 Comfortable Teach In setting

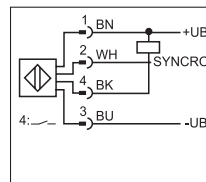
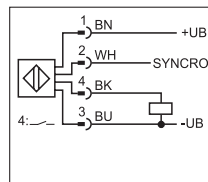
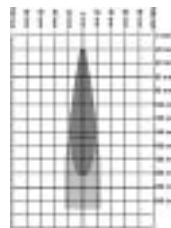
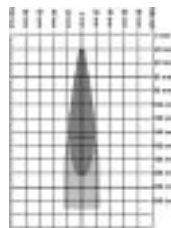


UT 20-I50-PSM 4 UT 20-I50-NSM4

Housing (mm)	32 x 20 x 12	32 x 20 x 12
Scanning distance (mm)	20 ... 150 mm	20 ... 150 mm
Type of mounting		
Special features		
Switching frequency (Hz)	25	25
Repeatability	+ - 0,15%	+ - 0,15%
Type of connection	Plug M8 4 pins	Plug M8 4 pins
Signal output	PNP	NPN
Output function	N.O./N.C.	N.O./N.C.
Range of operating voltage	20 ... 30 V DC	20 ... 30 V DC
Power consumption (no load) (mA)	< 25	< 25
Max. output current (mA)	200	200
Typical switching hysteresis	2 mm	2 mm
Setting	Teach In	Teach In
Displays	LED green: function, LED yellow: switching	LED green: function, LED yellow: switching
Casing material	ABS	ABS
Protection standard	IP67	IP67
Ambient temperature	-20 ... +70°C	-20 ... +70°C

Order type

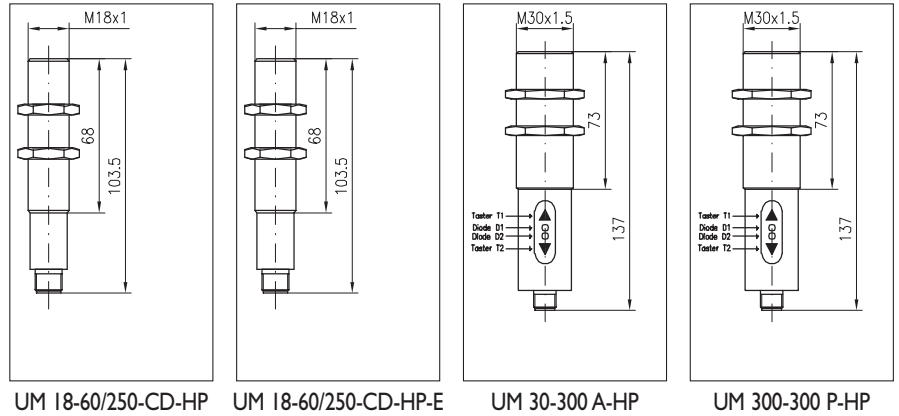
UT 20-I50-PSM 4 UT 20-I50-NSM4





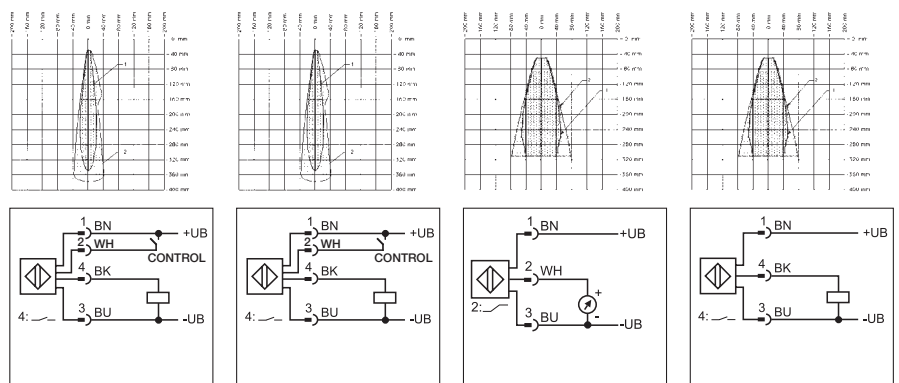
Ultrasonic sensors

Cylindrical design
 Robust metal housing
 U30 with Touch Control
 U30: N.O./N.C. selectable
 Protective wiring
 Analogue: selectable increasing or falling output characteristics
 Analogue: Minimum linearity distortion
 Slight temperature drift of 0.17%/K



Housing (mm)	M 18	M 18	M 30	M 30
Scanning distance (mm)	30 to 250	30 to 250	60 to 350	60 to 350
Type of mounting				
Special features	two fixed switching interval settings	two fixed switching interval settings	automatic change-over power/voltage	
Switching frequency (Hz)	30	30		8
Repeatability	< 1mm	< 1mm	+/- 1mm	+/- 1mm
Type of connection	M12 4-pin plug	M12 4-pin plug	M12 4-pin plug	M12 4-pin plug
Signal output	1 x PNP	1 x PNP	analogue	1 x PNP
Output function	N.O.	N.O.	Power: 4 - 20mA (load <500 Ohm) Voltage: 0 -10V (load > 100kOhm)	N.O./N.C. (N.O. pre-set)
Range of operating voltage	12 to 30V DC	12 to 30V DC	12 to 30V DC	12 to 30V DC
Power consumption (no load) (mA)	<= 60	<= 60	<= 70	<= 60
Max. output current (mA)	500	500		500
Typical switching hysteresis	2 mm	2 mm	5mm	5 mm
Setting	Control input	Control input	2 press-buttons	2 press-buttons
Displays			2 x three-colour LEDs	1x three-colour LED
Casing material	Nickel-plated brass	Stainless steel	Nickel-plated brass	Nickel-plated brass
Protection standard	IP65	IP65	IP65	IP65
Ambient temperature	-20 to +70°C	-20 to +70°C	-20 to +70°C	-20 to +70°C

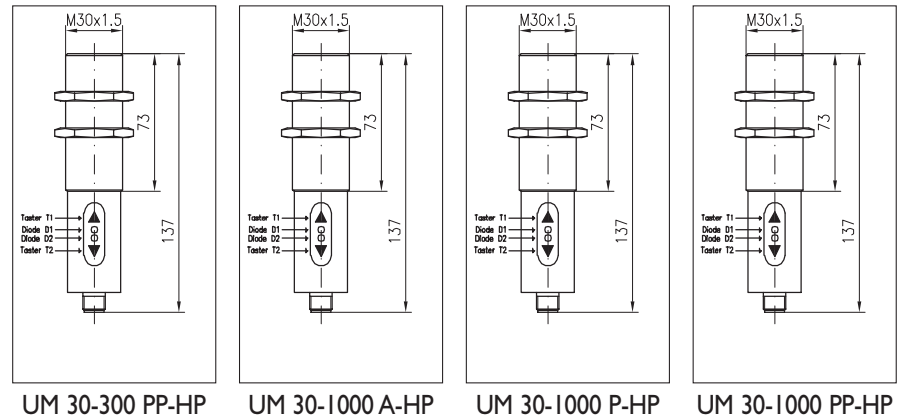
Order type **UM 18-60/250-CD-HP** **UM 18-60/250-CD-HP-E** **UM 30-300 A-HP** **UM 300-300 P-HP**





Ultrasonic sensors

Cylindrical design
 Robust metal housing
 U30 with Touch Control
 U30: N.O./N.C. selectable
 Protective wiring
 Analogue: selectable increasing or falling output characteristics
 Analogue: Minimum linearity distortion
 Slight temperature drift of 0.17%/K



UM 30-300 PP-HP

UM 30-1000 A-HP

UM 30-1000 P-HP

UM 30-1000 PP-HP

Housing (mm)	M 30	M 30	M 30	M 30
Scanning distance (mm)	60 to 350	200 to 1300	200 to 1300	200 to 1300
Type of mounting				
Special features		automatic change-over power/voltage		
Switching frequency (Hz)	8		7	7
Repeatability	+/- 1mm	+/- 2mm	+/- 2mm	+/- 2mm
Type of connection	M12 4-pin plug	M12 4-pin plug	M12 4-pin plug	M12 4-pin plug
Signal output	2 x PNP	analogue	1 x PNP	2 x PNP
Output function	N.O./N.C. (N.O. pre-set)	Power: 4 - 20mA (load < 500 Ohm) Voltage: 0 - 10V (load > 100kOhm)	N.O./N.C. (N.O. pre-set)	N.O./N.C. (N.O. pre-set)
Range of operating voltage	12 to 30V DC	12 to 30V DC	12 to 30V DC	12 to 30V DC
Power consumption (no load) (mA)	<= 60	<= 70	<= 60	<= 60
Max. output current (mA)	500		500	500
Typical switching hysteresis	5 mm	20 mm	20 mm	20 mm
Setting	2 press-buttons	2 press-buttons	2 press-buttons	2 press-buttons
Displays	2 x three-colour LEDs	2 x three-colour LEDs	1 x three-colour LED	2 x three-colour LEDs
Casing material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Protection standard	IP65	IP65	IP65	IP65
Ambient temperature	-20 to +70°C	-20 to +70°C	-20 to +70°C	-20 to +70°C

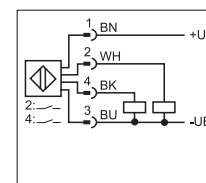
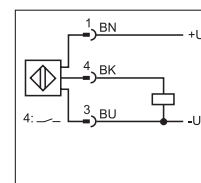
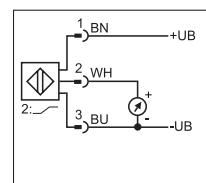
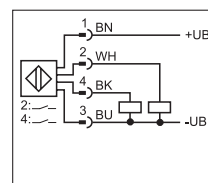
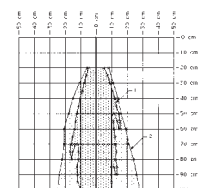
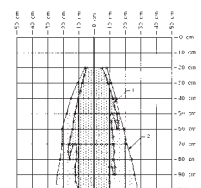
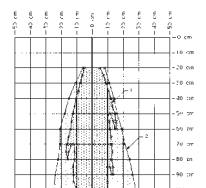
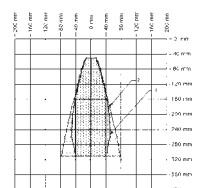
Order type

UM 30-300 PP-HP

UM 30-1000 A-HP

UM 30-1000 P-HP

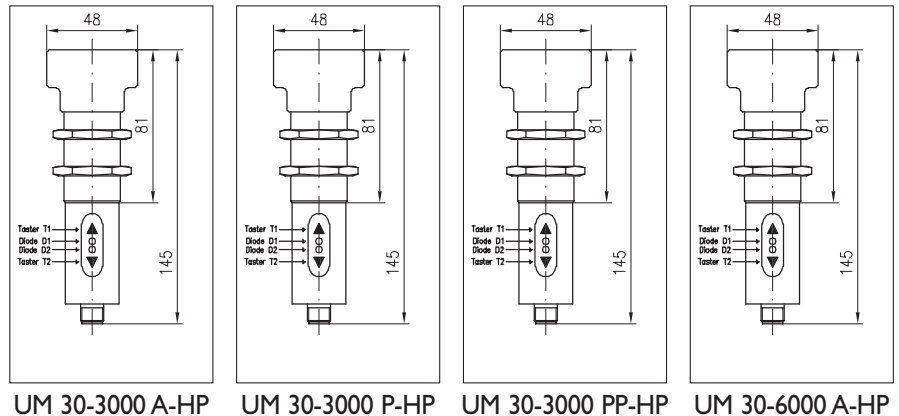
UM 30-1000 PP-HP



Ultrasonic sensors

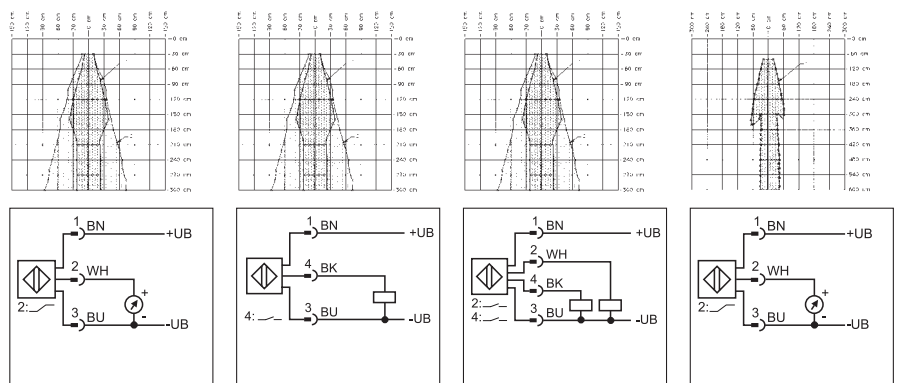


- Cylindrical design
- Robust metal housing
- U30 with Touch Control
- U30: N.O./N.C. selectable
- Protective wiring
- Analogue: selectable increasing or falling output characteristics
- Analogue: Minimum linearity distortion
- Slight temperature drift of 0.17%/K



Scanning distance (mm)	350 to 3400	350 to 3400	350 to 3400	800 to 6000
Type of mounting				
Special features	automatic change-over power/voltage			automatic change-over power/voltage
Switching frequency (Hz)		4	4	
Repeatability	+/-3mm	+/-3mm	+/-3mm	+4mm
Type of connection	M12 4-pin plug	M12 4-pin plug	M12 4-pin plug	M12 4-pin plug
Signal output	analogue	1 x PNP	2 x PNP	analogue
Output function	Power: 4 - 20mA (load <500 Ohm) Voltage: 0 -10V (load > 100kOhm)	N.O./N.C. (N.O. pre-set)	N.O./N.C. (N.O. pre-set)	Power: 4 - 20mA (load <500 Ohm) Voltage: 0 -10V (load > 100kOhm)
Range of operating voltage	12 to 30V DC	12 to 30V DC	12 to 30V DC	12 to 30V DC
Power consumption (no load) (mA)	<= 70	<= 60	<= 60	<= 70
Max. output current (mA)		500	500	
Typical switching hysteresis	50 mm	50 mm	50 mm	100 mm
Setting	2 press-buttons	2 press-buttons	2 press-buttons	2 press-buttons
Displays	2 x three-colour LEDs	1 x three-colour LED	2 x three-colour LEDs	2 x three-colour LEDs
Casing material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Protection standard	IP65	IP65	IP65	IP65
Ambient temperature	-20 to +70°C	-20 to +70°C	-20 to +70°C	-20 to +70°C

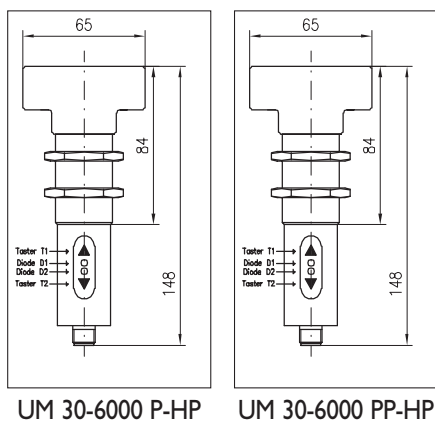
Order type **UM 30-3000 A-HP** **UM 30-3000 P-HP** **UM 30-3000 PP-HP** **UM 30-6000 A-HP**





Ultrasonic sensors

- Cylindrical design
- Robust metal housing
- U30 with Touch Control
- U30: N.O./N.C. selectable
- Protective wiring
- Analogue: selectable increasing or falling output characteristics
- Analogue: Minimum linearity distortion
- Slight temperature drift of 0.17%/K



UM 30-6000 P-HP

UM 30-6000 PP-HP

Housing (mm)	M 30	M 30
Scanning distance (mm)	800 to 6000	800 to 6000
Type of mounting		
Special features		
Switching frequency (Hz)	2	2
Repeatability	+/-4mm	+/-4mm
Type of connection	M12 4-pin plug	M12 4-pin plug
Signal output	1 x PNP	2 x PNP
Output function	N.O./N.C. (N.O. pre-set)	N.O./N.C. (N.O. pre-set)
Range of operating voltage	12 to 30V DC	12 to 30V DC
Power consumption (no load) (mA)	<= 60	<= 60
Max. output current (mA)	500	500
Typical switching hysteresis	100 mm	100 mm
Setting	2 press-buttons	2 press-buttons
Displays	2 x three-colour LEDs	2 x three-colour LEDs
Casing material	Nickel-plated brass	Nickel-plated brass
Protection standard	IP65	IP65
Ambient temperature	-20 to +70°C	-20 to +70°C

Order type

UM 30-6000 P-HP

UM 30-6000 PP-HP

