



Sd = 400 mm

- internal and external Teach-in
- sensorfront chemically resistant
- stainless steel housing



UNAR 18 Sd = 400 mm

**general data**

special type	chemically resistant
sensing range sd	60 ... 400 mm
scanning range far limit Sde	60 ... 400 mm
hysteresis typ.	4% Sde
repeatability	< 0,5 mm
temperature drift	< 0,18% Sde/K
adjustment	Teach-in
response time ton	< 60 ms
release time toff	< 60 ms
alignment aid	target display flashing
sonic frequency	400 kHz
output indicator	LED green

**electrical data**

voltage supply range +Vs	12 ... 30 VDC
current consumption max.	35 mA
output current	< 200 mA
voltage drop Vd	< 2 VDC
residual ripple	< 10% Vs
short circuit protection	yes
reverse polarity protection	yes

**mechanical data**

type	cylindrical
housing material	stainless steel 1.4435 (A4)
coating active face	Parylene
material O-Ring	FFKM
width / diameter	18 mm
height / length	91,5 mm
connection types	connector M12

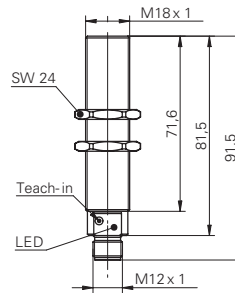
**ambient conditions**

operating temperature	0 ... +60 °C
protection class	IP 67

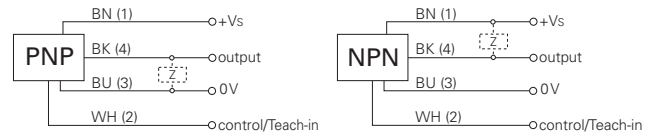
**accessories**

connectors	ES 14, ESW 33A, ESG 34A
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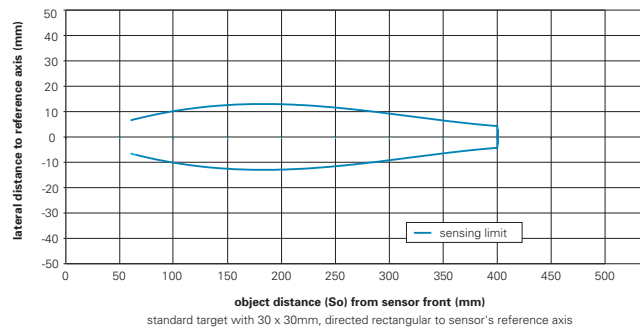
**dimension drawing**



**connection diagrams**



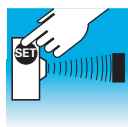
**typical sonic cone profile**



Ultrasonic proximity sensors

**order reference      output circuit**

UNAR 18N6912/S14G	NPN make function (NO)
UNAR 18N7912/S14G	NPN break function (NC)
UNAR 18P6912/S14G	PNP make function (NO)
UNAR 18P7912/S14G	PNP break function (NC)



**Sd = 1000 mm**

- internal and external Teach-in
- sensorfront chemically resistant
- stainless steel housing



### general data

special type	chemically resistant
sensing range sd	100 ... 1000 mm
scanning range far limit Sde	100 ... 1000 mm
hysteresis typ.	4% Sde
repeatability	< 0,5 mm
temperature drift	< 0,18% Sde/K
adjustment	Teach-in
response time ton	< 80 ms
release time toff	< 80 ms
alignment aid	target display flashing
sonic frequency	240 kHz
output indicator	LED green

### electrical data

voltage supply range +Vs	12 ... 30 VDC
current consumption max.	35 mA
output current	< 200 mA
voltage drop Vd	< 2 VDC
residual ripple	< 10% Vs
short circuit protection	yes
reverse polarity protection	yes

### mechanical data

type	cylindrical
housing material	stainless steel 1.4435 (A4)
coating active face	Parylene
material O-Ring	FFKM
width / diameter	18 mm
height / length	91,5 mm
connection types	connector M12

### ambient conditions

operating temperature	0 ... +60 °C
protection class	IP 67

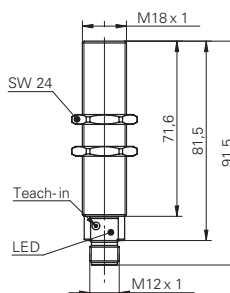
### accessories

connectors	ES 14, ESW 33A, ESG 34A
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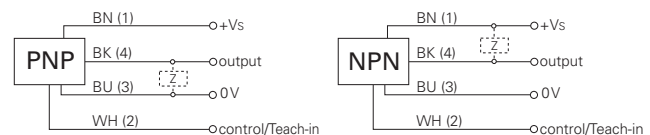
### order reference

order reference	output circuit
UNAR 18N6903/S14G	NPN make function (NO)
UNAR 18N7903/S14G	NPN break function (NC)
UNAR 18P6903/S14G	PNP make function (NO)
UNAR 18P7903/S14G	PNP break function (NC)

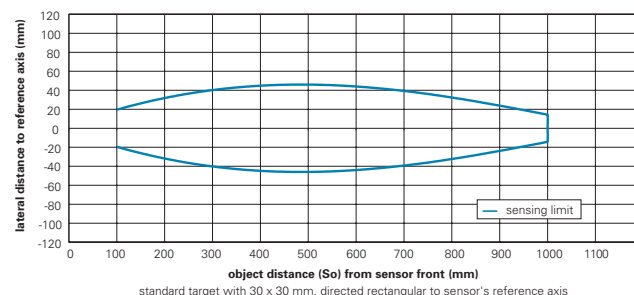
### dimension drawing



### connection diagrams

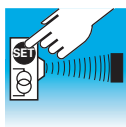


### typical sonic cone profile



UNAR 18 Sd = 1000 mm

Ultrasonic proximity sensors



Sd = 400 mm

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**general data**

special type	chemically resistant
sensing range sd	60 ... 400 mm
scanning range close limit Sdc	60 ... 400 mm
scanning range far limit Sde	60 ... 400 mm
repeatability	< 0,5 mm
resolution	< 0,3 mm
adjustment	Teach-in
sonic frequency	400 kHz
response time ton	< 60 ms
release time toff	< 60 ms
alignment aid	target display flashing
light indicator	yellow LED / red LED
temperature drift	< 2% of distance to target So

**electrical data**

voltage supply range +Vs	15 ... 30 VDC
output current	< 20 mA
residual ripple	< 10% Vs
short circuit protection	yes
reverse polarity protection	yes

**voltage output**

current consumption max.	35 mA
output signal	0 ... 10 V / 10 ... 0 V

**current output**

current consumption max.	55 mA
output signal	4 ... 20 mA / 20 ... 4 mA
load resistance +Vs max.	< 1100 Ohm
load resistance +Vs min.	< 400 Ohm

**mechanical data**

type	cylindrical
housing material	stainless steel 1.4435 (A4)
coating active face	Parylene
material O-Ring	FFKM
width / diameter	18 mm
height / length	91,5 mm
connection types	connector M12

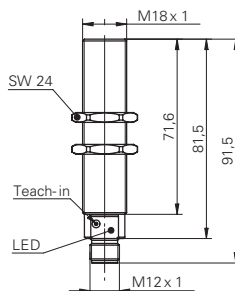
**ambient conditions**

operating temperature	0 ... +60 °C
protection class	IP 67

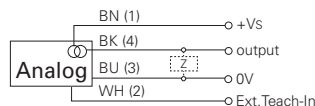
**accessories**

connectors	ESW 33A, ESG 34A
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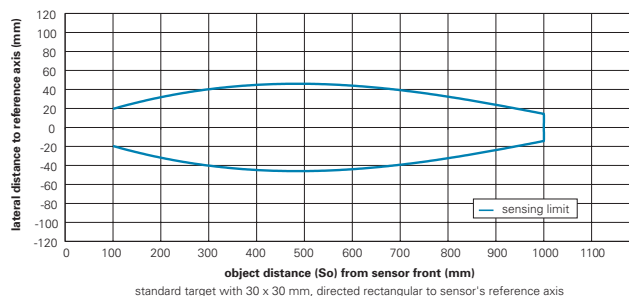
**dimension drawing**



**connection diagram**



**typical sonic cone profile**

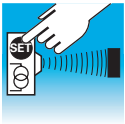


UNAR 18 Sd = 400 mm

Ultrasonic analog sensors

**order reference                      output circuit**

UNAR 18I6912/S14G	current output
UNAR 18U6912/S14G	voltage output



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scanning range far limit Sde	60 ... 400 mm
repeatability	< 0,5 mm
resolution	< 0,3 mm
adjustment	Teach-in
sonic frequency	400 kHz
response time ton	< 60 ms
release time toff	< 60 ms
alignment aid	target display flashing
light indicator	yellow LED / red LED
temperature drift	< 2% of distance to target So

**electrical data**

voltage supply range +Vs	15 ... 30 VDC
output current	< 20 mA
residual ripple	< 10% Vs
short circuit protection	yes
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**voltage output**

current consumption max.	35 mA
output signal	0 ... 10 V / 10 ... 0 V

**current output**

current consumption max.	55 mA
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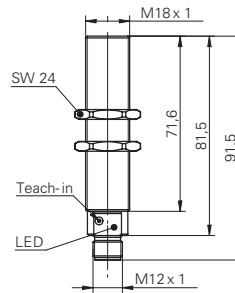
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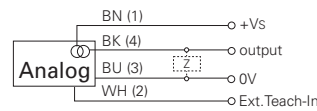
**accessories**

connectors	ESW 33A, ESG 34A
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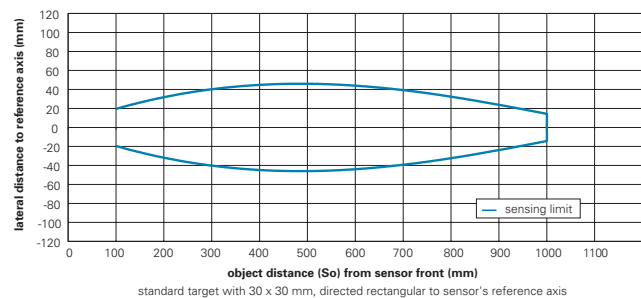
**dimension drawing**



**connection diagram**



**typical sonic cone profile**



UNAR 18 Sd = 400 mm

Ultrasonic analog sensors

**order reference      output circuit**

UNAR 18I6912/S14G	current output
UNAR 18U6912/S14G	voltage output