

Sd = 700 mm

- potentiometer
- synchronisation output



UNAM 18 Sd = 700 mm

general data

sensing range sd	100 ... 700 mm
scanning range far limit Sde	110 ... 700 mm
hysteresis typ.	4% Sde
repeatability	< 1 mm
synchronization	yes
temperature drift	< 0,18% Sde/K
adjustment	potentiometer
response time ton (synch on)	< 100 ms
release time toff (synch on)	< 100 ms
alignment aid	target display flashing
sonic frequency	230 kHz
output indicator	LED green

electrical data

voltage supply range +Vs	12 ... 30 VDC
current consumption max.	30 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	brass nickel plated
width / diameter	18 mm
height / length	89 mm
connection types	cable

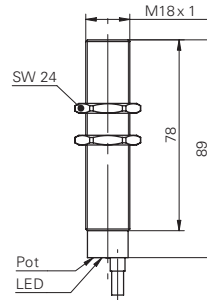
ambient conditions

operating temperature	-20 ... +60 °C
protection class	IP 67

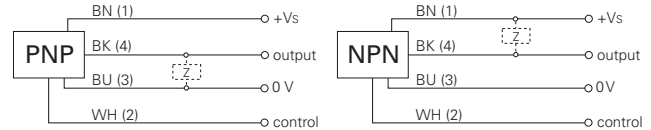
order reference output circuit

UNAM 18N1703	NPN make function (NO)
UNAM 18N3703	NPN break function (NC)
UNAM 18P1703	PNP make function (NO)
UNAM 18P3703	PNP break function (NC)

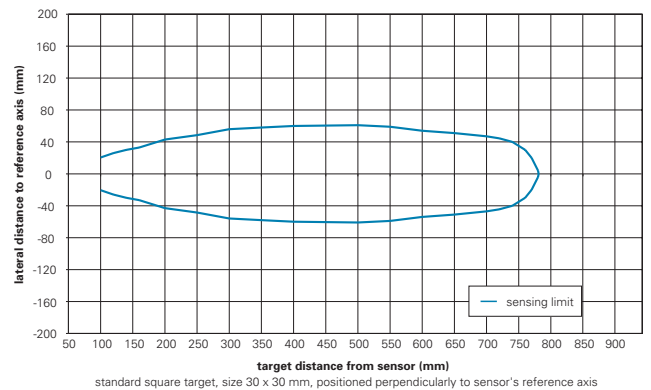
dimension drawing



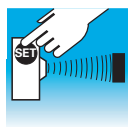
connection diagrams



typical sonic cone profile



Ultrasonic proximity sensors



Sd = 1000 mm

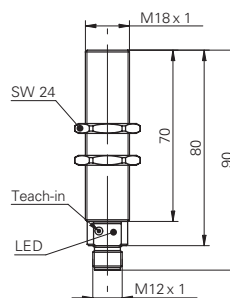
- internal and external Teach-in



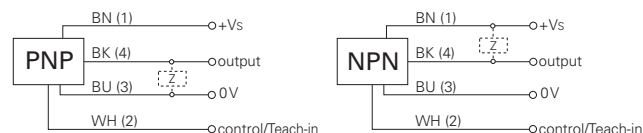
general data	
sensing range sd	100 ... 1000 mm
scanning range far limit Sde	100 ... 1000 mm
hysteresis typ.	4% Sde
repeatability	< 0,5 mm
temperature drift	< 0,18% Sde/K
adjustment	Teach-in
response time ton	< 50 ms
release time toff	< 50 ms
alignment aid	target display flashing
sonic frequency	240 kHz
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	brass nickel plated
width / diameter	18 mm
height / length	90 mm
connection types	connector M12
ambient conditions	
operating temperature	-10 ... +60 °C
protection class	IP 67
accessories	
connectors	ES 14, ESW 33A, ESG 34A

order reference	output circuit
UNAM 18N6903/S14	NPN make function (NO)
UNAM 18N7903/S14	NPN break function (NC)
UNAM 18P6903/S14	PNP make function (NO)
UNAM 18P7903/S14	PNP break function (NC)

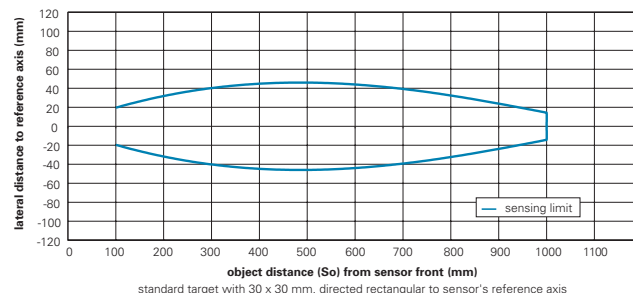
dimension drawing



connection diagrams

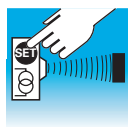


typical sonic cone profile



UNAM 18 Sd = 1000 mm

Ultrasonic proximity sensors



Sd = 1000 mm

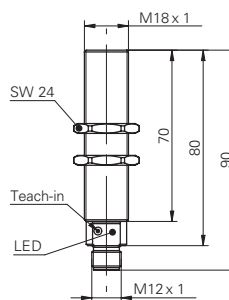
- internal and external Teach-in
- 0 ... 10 V / 4 ... 20 mA
- output signals invertible



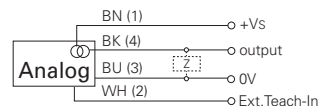
general data	
sensing range sd	100 ... 1000 mm
scanning range close limit Sdc	100 ... 1000 mm
scanning range far limit Sde	100 ... 1000 mm
repeatability	< 0,5 mm
resolution	< 0,3 mm
adjustment	Teach-in
sonic frequency	240 kHz
response time ton	< 80 ms
release time toff	< 80 ms
alignment aid	target display 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	brass nickel plated
width / diameter	18 mm
height / length	90 mm
connection types	connector M12
ambient conditions	
operating temperature	-10 ... +60 °C
protection class	IP 67
accessories	
connectors	ESW 33A, ESG 34A

order reference	output circuit
UNAM 18I6903/S14	current output
UNAM 18U6903/S14	voltage output

dimension drawing



connection diagram



typical sonic cone profile

