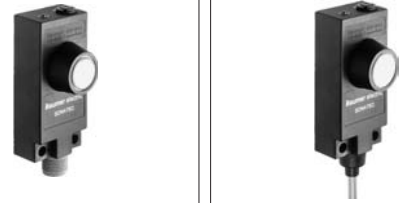
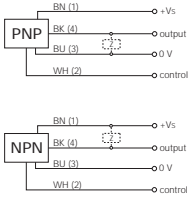
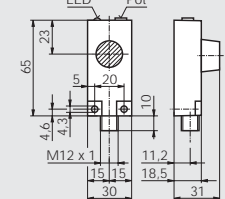
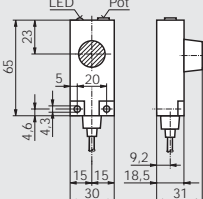





# Ultrasonic proximity sensors

Scanning range Sd	100...700 mm	100...700 mm
Special characteristics	• With synchronization output	• With synchronization output
<p>Ultrasonic proximity sensors enable the detection of different objects - irrespective of color and transparency. The sensor's potentiometer enables the user to adjust the sensor for a specific sensing distance, eliminating background interference.</p> 		
PNP make function (NO)	UNDK 30P1703/S14	UNDK 30P1703
PNP break function (NC)	UNDK 30P3703/S14	UNDK 30P3703
NPN make function (NO)	UNDK 30N1703/S14	UNDK 18N1703
NPN break function (NC)	UNDK 30N3703/S14	UNDK 30N3703
<b>technical data</b>		
scanning range far limit Sde	110...700 mm	110...700 mm
sonic beam angle	10°	10°
sonic frequency	230 kHz	230 kHz
hysteresis	4% Sde	4% Sde
voltage supply range	12 - 30 VDC	12 - 30 VDC
residual ripple	< 10% Vs	< 10% Vs
supply current	< 30 mA	< 30 mA
max. switching current	200 mA	200 mA
voltage drop	≤ 2 VDC	≤ 2 VDC
short circuit protection	yes	yes
reverse polarity protection	yes	yes
response time $t_{on}/t_{off}$	≤ 50...100 ms	≤ 50...100 ms
repeatability	≤ 1 mm or 1% (Sde - St) *	≤ 1 mm or 1% (Sde - St) *
temperature drift	≤ 0,1% Sde/K	≤ 0,1% Sde/K
temperature range	0...+60 °C	0...+60 °C
housing material	polyester	polyester
protection class	IP 67	IP 67
* larger value applies		
switching state indication	green LED	green LED
adjustment aid	yes	yes
synchronization	yes	yes
<b>options</b>		
connector type	-	-
connector options	ES 14, ES 33A, ES 34A	-
multiplex version	UNDK 30xx803/S14	UNDK 30xx803
		

100...700 mm	200...1500 mm	350...2500 mm
• With synchronization output	• Extended sensing distance	• Long sensing distance • With synchronization output
		
UNAM 18P1703	UNAM 30P1104	UNAM 50P1721/S14
UNAM 18P3703	UNAM 30P3104	UNAM 50P3721/S14
UNAM 18N1703	UNAM 30N1104	UNAM 50N1721/S14
UNAM 18N3703	UNAM 30N3104	UNAM 50N3721/S14
<b>technical data</b>		
scanning range far limit Sde	110...700 mm	400...2500 mm
sonic beam angle	10°	8°
sonic frequency	230 kHz	120 kHz
hysteresis	4% Sde	4% Sde
voltage supply range	12 - 30 VDC	12 - 30 VDC
residual ripple	< 10% Vs	< 10% Vs
supply current	< 30 mA	< 30 mA
max. switching current	200 mA	200 mA
voltage drop	≤ 2 VDC	≤ 2 VDC
short circuit protection	yes	yes
reverse polarity protection	yes	yes
response time $t_{on}/t_{off}$	≤ 50...100 ms	≤ 250 ms
repeatability	≤ 1 mm or 1% (Sde - St) *	≤ 2 mm or 1% (Sde - St) *
temperature drift	0,18% Sde/K	0,18% Sde/K
temperature range	-20...+60 °C	-25...+60 °C
housing material	brass nickel plated	brass nickel plated
protection class	IP 67	IP 67
* larger value applies		
switching state indication	green LED	green LED
adjustment aid	yes	yes
synchronization	yes	yes
<b>options</b>		
connector type	-	-
connector options	UNAM 30xxx/S14	ES 14, ES 33A, ES 34A
multiplex version	UNAM 18xx803	UNAM 50xx821/S14
