

Formato

Cilíndrico 18
Osiconcept



Dimensiones (Frente x Alto x Fondo) en mm	
Envolvente	
Distancia de detección máxima (m)	Proximidad con supresión de fondo
	Proximidad
	Reflex polarizado
	Reflex
	Barrera
Grado de protección	
Alimentación	
Salida	
Conexión	Cable
	Conector
	Terminal atornillable
Referencia	
Página	

Ø 18, roscado M18 x 1 Longitud: 62...92 (1)	
Plástico	Metal
0.12	0.12
0.40	0.40
3	3
–	–
20	20
IP 65 IP 67	IP 65 IP 67
●	●
–	–
–	–
Transistor (PNP o NPN) (1) ó SCR NA o NC (programable)	Transistor (PNP o NPN) (1) ó SCR NA o NC (programable)
●	●
●	●
–	–
XUB 0A	XUB 0B
1	1

<i>Miniatura 34 x 20</i>	<i>Compacto 50 x 50</i>	<i>Estandar 92 x 77</i>	<i>Fibra óptica 40 x 65</i>
<i>Osiconcept</i>	<i>Osiconcept</i>	<i>Osiconcept</i>	<i>Osiconcept</i>



Cable: 12 x 34 x 20 Conector M8 : 12 x 45 x 20	18 x 50 x 50	30 x 92 x 77	10 x 40 x 65 (amplificador)
Plastico			
0.10	0.28	1.3	–
0.55	1.2	3	0.006...0.070 (2)
4	5.7	15	–
–	–	–	–
14	35	60	0.050...1.5 (2)
IP 65 IP 67	IP 65	IP 65 IP 67	IP 65 (amplifier) IP 64 (fibres)
●	●	●	●
–	–	–	–
–	●	●	–
Transistor (PNP o NPN) NA o NC (programable)	Transistor (PNP y NPN) o 1 NA/NC rele NA o NC (programable)	Transistor (PNP y NPN) o 1 NA/NC rele NA o NC (programable)	Transistor (PNP o NPN) NA o NC (programable)
●	●	–	●
●	●	●	●
–	–	●	–
XUM 0A	XUK 0A	XUX 0A	XUD A2
2	2	2	2

Otras aplicaciones	Otro formato	Ensamble	
	Uso general	Diametro 8 metal	Detección y contaje de objetos alimentados ó producidos por una máquina



Formato	Compacto	Tamaño 8	Ventana
Dimensiones (Ancho x Alto x Fondo) en mm	18 x 70 x 35	Ø 8, roscado M8 x 1 L: 40	15 x 50 x 108 15 x 86 x 131 25 x 230 x 205/265/335
Envolvente	Plastico	Metal	
Distancia de detección máxima (m)	Proximidad con supresion de fondo	-	-
	Proximidad	0.7	0.05
	Reflex polarizado	4 (reflector Ø 80 mm)	-
	Reflex	6 (reflector Ø 80 mm)	-
	Barrera	8	2
			0.03-0.06-0.12-0.18-0.25 (1)
Grado de protección	IP 67	IP 65 (1) IP 67 (1)	IP 65
Alimentación	☐	●	●
	~	-	-
	⌘	-	-
Salida	Transistor	Transistor (PNP o NPN)	
Conexión	Cable	●	-
	Conector	●	●
	Terminal atornillable	-	-
Referencia	XUL	XUA	XUV F
Página	3	3	3

Empacado-Embalaje										
Detección de película transparente	Detección de cualquier objeto transparente	Detección agua y líquidos	Detección de etiquetas	Detección de color	Lectores marca de color			Luminicente		
	Botella, recipientes, película, etc.	Nivel en recipientes opacos	Especial para máquinas empacadoras	Reconoce colores direccionando, ordenando	Detectar marca de referencia, contraste en máquinas de empaque impresión etiquetado, etc.			Detectar marcas invisibles, adhesivos barniz, etc		



Diseño 18	Compacto	Semi Compacto	Horquilla	Compacto	Compacto para fibra	Compacto	Estandar	Miniatura	Diseño 18	Estandar	
Ø 18, roscado M18 x 1 L: 55	18 x 50 x 50	13 x 47 x 23	20 x 90 x 26	50 x 50 x 25	30 x 80 x 57 25 x 92 x 54	50 x 50 x 15	30 x 87 x 63 31 x 81 x 58	10 x 32 x 24	Ø 18, roscado M18 x 1 L: 82	31 x 81 x 58	
Plastico		Plastico	Metal	Plastico	Metal	Plastico	Metal	Plastico	Metal		
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	0.020	0.040...0.060 0.040...0.250 (1)	0.019	0.009	0.015	0.02	0.009	
-	-	-	-	-	-	-	-	-	-	-	
0.8	1.5	-	-	-	-	-	-	-	-	-	
-	-	50	0.002	-	-	-	-	-	-	-	
IP 65 IP 67	IP 65	IP 65	IP 65	IP 65	IP 65 (2) IP 67 (2)	IP 65	IP 67	IP 67	IP 67	IP 67	
●	●	●	●	●	●	●	●	●	●	●	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Transistor (PNP o NPN)		Transistor (PNP or NPN)						Transistor (PNP)	Transistor (PNP)	Transistor (PNP o NPN)	
●	●	●	-	-	●	-	-	●	-	-	
●	●	-	●	●	-	●	●	-	●	●	
-	-	-	-	-	-	-	-	-	-	-	
XUB	XUK T	XUM W	XUV K	XUK C	XUR C	XUK R	XUR K	XUM	XU5 M	XUR U	
4	4	4	4	4	4	4	4	4	4	4	

Otras aplicaciones

Manejo de materiales				
Proximidad supresión de fondo	Proximidad salida analógica	Barrera Gran Alcance	Barrera laser 100 m	Horquilla
Alta precision, detección de cualquier objeto opaco o brillante y de pequeña dimensión	Medición, posicionamiento excentricidad, concentricidad etc	Detección en ambiente difícil (humo,polvo)	Gruas viajeras alineación en grandes distancias	Detección de etiquetas



Formato	Compacto	Diseño 18	Compacto	Diseño 18	Horquilla	
Dimensiones (Ancho x Alto x Fondo) en mm	18 x 50 x 50	Ø 18, roscado M18 x 1 L: 82	27 x 85 x 61	Ø 18, roscado M18 x 1 L: 82	Ø 18, roscado M18 x 1 L: 76	14 x 58 x 68
Envolvente	Plastico	Metal	Plastico	Metal	Plastico	
Distancia máxima de detección	Proximidad con supresión de fondo	1	-	-	-	-
	Proximidad	-	0.05...0.4	0.20...0.80	-	-
	Reflex polarizado	-	-	-	-	-
	Reflex	-	-	-	-	-
	Barrera	-	-	-	50	100
Grado de aislamiento	IP 65	IP 67	IP 67	IP 67	IP 67	IP 54
Alimentación		●	●	●	●	●
		-	-	-	-	-
		-	-	-	-	-
Salida	Transistor (PNP o NPN)	Analógica (PNP)		Transistor (PNP) + analógica	Transistor (PNP y NPN)	
Conexión	Cableado	●	-	-	-	●
	Conector	●	●	-	●	●
	Terminal atornillable	-	-	●	-	-
Referencia	XUK 8	XU5 M	XUJ	XU2 M	XU2	XUV
Página	5	5	5	5	5	5

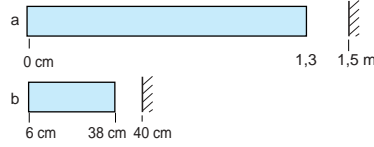
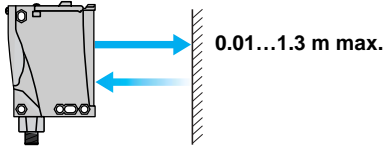
	Building, tertiary sectors		Food and beverage processing	Ø 18 AC/DC	Accesorios	Seguridad
With stability LED. With alarm output (for XUC ●AK only)	Monitoring of movement, relay output	Monitoring of movement with audible signalling (buzzer), relay output	STAINLESS STEEL cylindrical sensor (grade 304 CU) For use in vicinity of food or beverage processing machines	2-wire a.c. or d.c. supply	Reflectors, fixing clamps, mounting and adjustment accessories, converters, etc.	Surveillance using single-beam light curtains (1)



Compact design	Compact design		Design 18		Design 18	Accessories	Design 18 light curtains
45 x 95 x 44	18 x 70 x 45	27 x 85 x 61	Ø 18, threaded M18 x 1 L: 64...92	Ø 18, threaded M18 x 1 L: 62...88	Ø 18, threaded M18 x 1 L: 82...110	–	Ø 18, threaded M18 x 1 L: 63...95 (2)
Plastic	Plastic		Stainless steel	Stainless steel	Metal	–	Metal or plastic
1.2	–	–	0.12	–	0.12	–	–
–	–	–	0.3	0.10	0.4	–	–
6	–	–	2	2	2	–	–
–	6	6	–	4	–	–	–
50	–	–	15	15	15	–	8 or 50 (2)
IP 67	IP 67	IP 40	IP 67, IP 69K	IP 67	IP 67	–	IP 67 (XU2 S)
●	–	–	●	●	–	–	● (XU2 S)
–	–	–	–	–	–	–	–
●	●	●	–	–	●	–	● (XPS CE)
Solid-state PNP or NPN (XUC ●AK) 1 C/O relay (XUC ●AR)	1 C/O relay	1 N/O relay	Solid-state (PNP and NPN)	Solid-state (PNP and NPN)	Solid-state	–	Solid-state
●	●	–	●	●	●	–	● (XU2 S)
●	–	–	●	●	●	–	● (XU2 S)
–	–	●	–	–	–	–	● (XPS CE)
XUC	XUL	XUJ B	XUB 0S●	XU● N18	XU● M18	XUZ	XU2 S + XPS CE
6	6	6	6	6	6	6	Refer to our "Safety solutions" catalogue

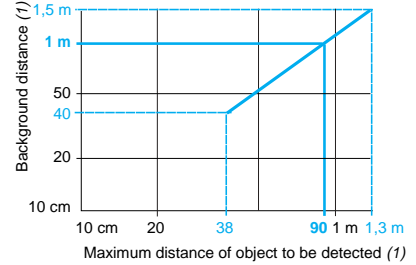
Distancia de sensado y máxima ganancia

Supresión de fondo



Background

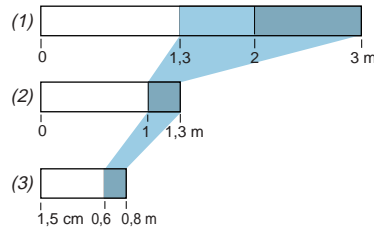
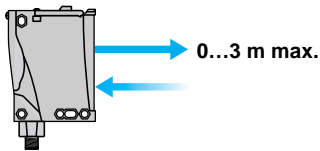
a: with background teaching at maximum recommended distance.
b: with background teaching at minimum recommended distance.



Example: teaching against a background located at 1 m enables detection of an object at 0 to 90 cm.

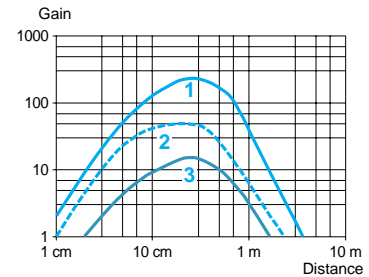
(1) From white 90% to black 6%.

Proximidad



(1) White 90%. (2) Grey 18%. (3) Black 6%.

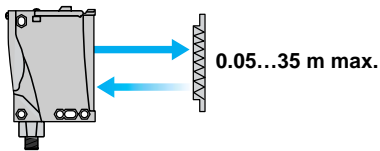
Object teaching zone



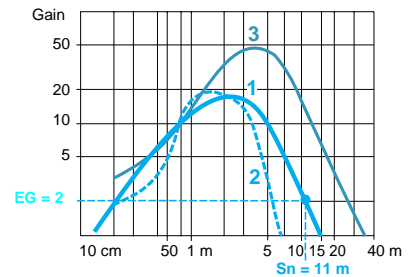
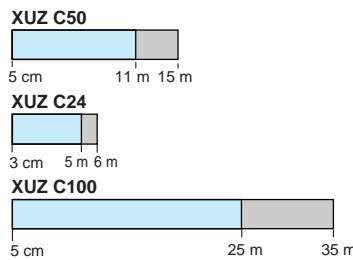
- 1 White object
- 2 Grey object
- 3 Black object

In diffuse mode, teaching of the position of the object to be detected, located between 0 and 1.3 m, automatically configures the product to "background suppression" mode. This provides a constant usable sensing distance, whatever the colour of the object.

Reflex polarizado

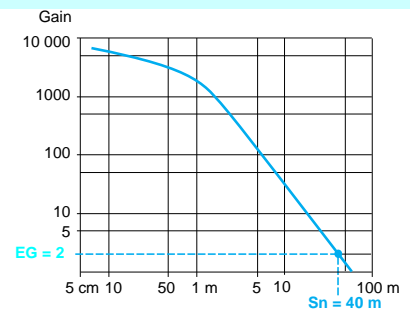
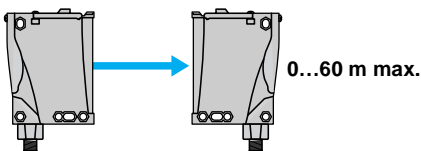


Con reflector



- 1 With reflector XUZ C50
- 2 With reflector XUZ C24
- 3 With reflector XUZ C100

Barrera



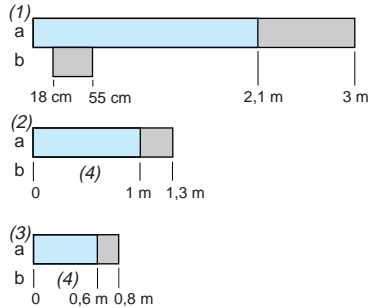
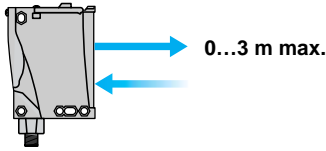
Nominal sensing distance. $EG \geq 2$.

Maximum sensing distance. The maximum sensing distances indicated are average values.

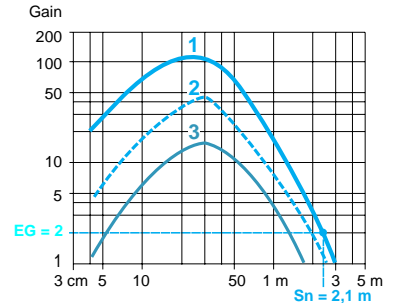
EG: Excess gain, operational reserve.

Distancia de sensado y ganancia máxima

Proximidad XUX 5A●●●●●●

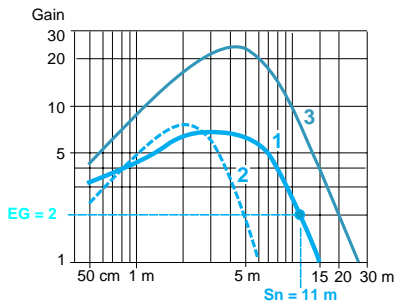
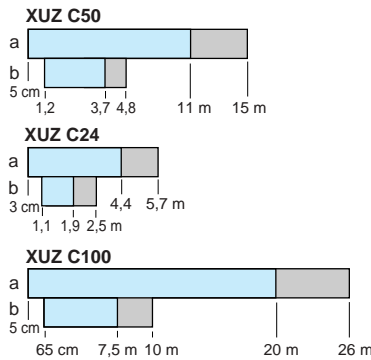
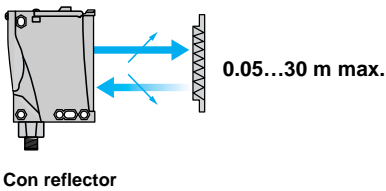


(1) White 90%. (2) Grey 18%. (3) Black 6%.
(4) No detection.



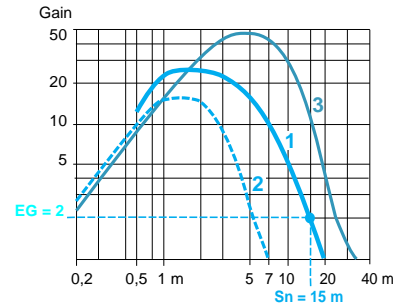
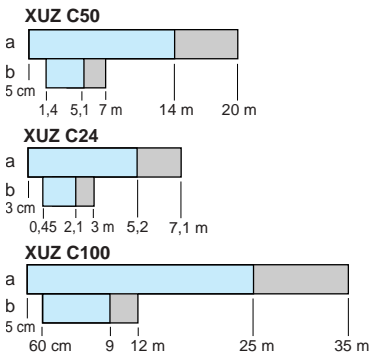
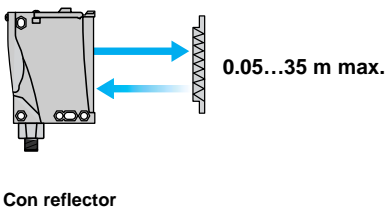
1 White object
2 Grey object
3 Black object

Reflex polarizado XUX 9A●●●●●●



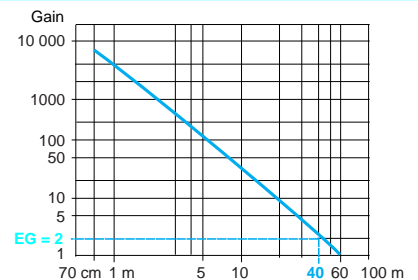
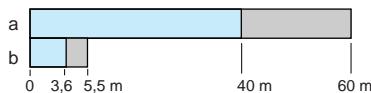
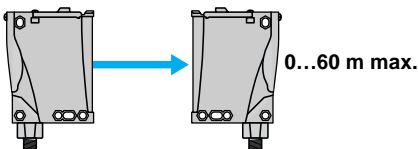
1 With reflector XUZ C50
2 With reflector XUZ C24
3 With reflector XUZ C100

Reflex XUX 1A●●●●●●



1 With reflector XUZ C50
2 With reflector XUZ C24
3 With reflector XUZ C100

Barrera XUX 2A●●●●●●



Nominal sensing distance. $EG \geq 2$.

Maximum sensing distance. The maximum sensing distances indicated are average values.

a: Potentiometer set at maximum.

b: Potentiometer set at minimum.

EG: Excess gain, operational reserve.