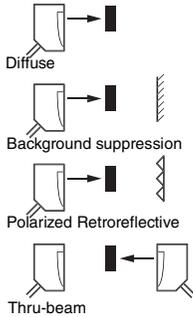


# Osiris Photoelectric Sensors



**Osiconcept®**  
Offering simplicity through Innovation

A single product that automatically adapts to all environments.

Programmable NO / NC  
NO: object present = output ON  
NC: no object present = output ON



		XUB Design 18 plastic	XUB Design 18 metal
Max. Sensing Distance	Diffuse	11.8" / 30 cm	11.8" / 30 cm
	Background Sup.	4.7" / 12 cm	4.7" / 12 cm
	Polarized Retro ■	6.5' / 2 m	6.5' / 2 m
	Thru-Beam ▲	49.2' / 15 m	49.2' / 15 m
Mounting		M18 x 1	M18 x 1
Enclosure M (metal) P (plastic) / Dimensions (mm) Ø x L or H x W x L		P / M18 x 64	M / M18 x 64
Common Characteristics		Adjustable sensing distance: <b>teach mode</b>	

**Sensors for DC applications** (solid state output: transistor)

Connection: pre-cabled, PvR (2 m)			
T / R 3-wire	PNP programmable NO / NC	XUB0APSNL2	XUB0BPSNL2
	NPN programmable NO / NC	XUB0ANSNL2	XUB0BNSNL2
	PNP / NPN programmable NO / NC	-	-
Connection: M12 connector (M8 for XUM) on M12 only			
T / R 3-wire	PNP programmable NO / NC	XUB0APSNM12	XUB0BPSNM12
	NPN programmable NO / NC	XUB0ANSNM12	XUB0BNSNM12
	PNP / NPN programmable NO / NC	-	-
Connection: Screw clamp terminals			
T / R 3-wire	PNP / NPN programmable NO / NC	-	-
Switching Capacity (mA) main output / alarm output		100 / -	100 / -
Common Characteristics		Supply voltage limits min/max (V) including ripple: 10...36	
Thru-beam accessory	pre-cabled (2 m)	XUB0AKSNL2T	XUB0BKSNL2T
	connector	XUB0AKSNM12T	XUB0BKSNM12T
	screw terminals, M16 cable gland	-	-

**Sensors for AC or DC applications** 10...36 Vdc / 20...264 Vac including ripple on dc relay output, 3 A

Connection: pre-cabled, PvR (2 m)			
T / R	programmable NO / NC with time delay	-	-
Connection: Screw clamp terminals			
T / R	programmable NO / NC with time delay	-	-
LED Output state indication (★) / power on LED (★)		-	-
Switching frequency (Hz)		-	-
Time delay(s)		-	-
Thru-beam accessory	pre-cabled, PvR (2 m)	-	-
	screw terminals, M16 cable gland	-	-

Also available in 18 mm 2-wire ac/dc version. Please see the 9006CT0101 Sensors Specification Guide.



**90° head**  
All the above Osiris Design 18 sensors are available with integral 90° head. Replace the "N" with a "W".  
Example: For pre-cabled versions: XUB1APANL2 becomes XUB1APAWL2.  
For versions with connector: XUB1APANM12 becomes XUB1APAWM12.

**Accessories**

Reflectors	(mm)
	Ø 16 XUZC16
	Ø 21 XUZC21
	24 x 21 XUZC24
	Ø 31 XUZC31
	Ø 39 XUZC39
	Ø 80 XUZC80
	50 x 50 XUZC50

■ Reflector sold separately  
▲ Emitter and receiver are sold individually

Mounting Brackets	Stainless Steel	Plastic
For		
XUB...	XUZA118 (stnls. steel)	XUZA218 (plastic)
XUM...	XUZA50	-
XUK...	XUZA51	-
XUX...	XUZX2000	-

Mounting Devices	For
	XUB... XUZH2003
	XUM... XUZH2003
	XUK... XUZH2003
	XUX... XUZH2003



XUM	XUK	XUX
Design Miniature	Design Compact 50 x 50	Design Compact
1.3' / 40 cm	3.28' / 1 m	6.5' / 2 m
4" / 10cm	11.8" / 30cm	4.2' / 1.3 m
9.8' / 3 m	13' / 4 m	36' / 11 m
45.8' / 14 m	98.2' / 30 m	131' / 40 m
direct: (Mounting holes 25.5) with M3 screws	direct: (40 x 40) with M4 screws	direct: (30 / 38 / 40 / 50 / 74) with M5 screws
P / 34 x 12 x 20	P / 50 x 18 x 50	P / 91 x 30 x 70
Alignment LEDs (☼): yes / Temperature range - 13...+ 131 °F (- 25...+ 55 °C) / Degree of protection (conforming to IEC 60 529): IP67 (XUK: IP65)		
<b>XUM0APSAL2</b>	-	-
<b>XUM0ANSAL2</b>	-	-
-	<b>XUK0AKSAL2</b>	-
<b>XUM0APSAM8 (1)</b>	-	-
<b>XUM0ANSAM8 (1)</b>	-	-
-	<b>XUK0AKSAM12</b>	<b>XUX0AKSAM12</b>
-	-	<b>XUX0AKSAT16</b>
100 / 50	100 / 50	100 / 50
Switching frequency (Hz): 250 / Overload and short-circuit protection: YES / Output state LED (☼) / Power on LED (★): yes		
<b>XUM0AKSAL2T</b>	<b>XUK0AKSAL2T</b>	<b>XUX0AKSAM12T</b>
<b>XUM0AKSAM8T (1)</b>	<b>XUK0AKSAM12T</b>	-
-	-	<b>XUX0AKSAT16T</b>
-	<b>XUK0ARCTL2</b>	-
-	-	<b>XUX0ARCTT16</b>
-	☼ / ★	☼ / ★
-	20	20
-	Adjustment 0 to 15 s, on delay, or off delay, or one shot	
-	<b>XUK0ARCTL2T</b>	-
-	-	<b>XUX0ARCTT16T</b>



### Connector innovation

New, innovative connector that is universal, simple and fast.

For all Telemecanique brand sensors with Snap-C compatible M12 connectors (pointed pins):

- cabling to the required length without using a screwdriver or soldering iron.
- ready in just a few seconds, no stripping required.

### Mounting Devices continued

Protective housing with ball joint



For	
XUM...	<b>XUZM2004</b>
XUK...	<b>XUZK2004</b>
XUX...	<b>XUZX2004</b>

M12 rod for ball joint



**XUZ2001**

Bracket for M12 rod



**XUZ2003**

### Suitable plug-in female connectors, including pre-wired versions

Length 5 m

without LED

M8

M12



Elbowed

**XSZCS152**

**XSZCD112Y**



Straight

**XSZCS142**

**XSZCD102Y**



Snap-C

-

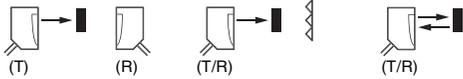
**XZCC12FDM40V**

(1) M8 not Snap-C® Compatible

# Osiris Photoelectric Sensors \_ Standard

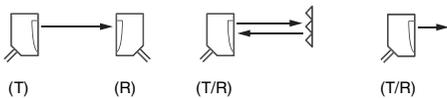
Detection with object present NO      Output ON / object present

Thru-beam      Polarized Retroreflective      Diffuse



Detection with no object present NC      Output ON / no object present

Thru-beam      Polarized Retroreflective      Diffuse



XUB

XUB

XUM

Maximum Sensing Distance	Diffuse	2' / 60 cm	2' / 60 cm	1.3' / 40 cm
	Polarized Reflex ■	6.5' / 2 m	6.5' / 2 m	6.5' / 2 m
	Reflex ■	13' / 4 m	13' / 4 m	13' / 4 m
	Thru-Beam ▲	49' / 15 m	49' / 15 m	26' / 8 m
Mounting (mm)		M18 x 1	M18 x 1	direct: (Mounting holes 25.5) with M3 screws
Enclosure M (metal) P (plastic) / Dimensions (mm) Ø x L or H x W x L		P / M18 x 46	M / M18 x 46	P / 12 x 34 x 27
Alignment LED's ✦		-	-	-
Common Characteristics		Temperature range - 13 to 131 °F (- 25...+ 55 °C)		

## Sensors for DC applications --- (solid state output: transistor)

Connection:			2 meter cable	M12 connector	2 meter cable	M12 connector	2 meter cable	M12 connector
Transmitter			XUB2AKSNL2T	XUB2AKSNM12T	XUB2BKSNL2T	XUB2BKSNM12T	XUM2AKSNL2T	XUM2AKSNM8T
Receiver or T/R, 3-wire PNP (1)	Diffuse adjustable	NO	XUB5APANL2	XUB5APANM12	XUB5BPANL2	XUB5BPANM12	XUM5APANL2	XUM5APANM8
		NC	XUB5APBNL2	XUB5APBNM12	XUB5BPNL2	XUB5BPNM12	XUM5APBNL2	XUM5APBNM8
	Polarized retroreflective	NO	XUB9APANL2	XUB9APANM12	XUB9BPANL2	XUB9BPANM12	XUM9APANL2	XUM9APANM8
		NC	XUB9APBNL2	XUB9APBNM12	XUB9BPNL2	XUB9BPNM12	XUM9APBNL2	XUM9APBNM8
	Retroreflective	NO	XUB1APANL2	XUB1APANM12	XUB1BPANL2	XUB1BPANM12	XUM1APANL2	XUM1APANM8
		NC	XUB1APBNL2	XUB1APBNM12	XUB1BPNL2	XUB1BPNM12	XUM1APBNL2	XUM1APBNM8
	Thru-beam	NO	XUB2APANL2R	XUB2APANM12R	XUB2BPANL2R	XUB2BPANM12R	XUM2APANL2R	XUM2APANM8R
		NC	XUB2APBNL2R	XUB2APBNM12R	XUB2BPNL2R	XUB2BPNM12R	XUM2APBNL2R	XUM2APBNM8R
Supply voltage limits min/max (V) including ripple			10...36	10...36	10...36	10...36	10...30	10...30
Switching Frequency (Hz)			500	500	500	500	500	500
Common characteristics for dc versions			Switching capacity, max (mA): 100					

(1) For versions with NPN output, replace the "P" in the above references with an "N".

## Sensors for AC or DC applications ~ / --- 10...36 Vdc / 20...264 Vac including ripple on dc relay output, 3 A

Connection			-	-	-	-	-	-
Transmitter			-	-	-	-	-	-
Receiver or T/R	Diffuse	NO + NC	-	-	-	-	-	-
	Polarized retro	NO + NC	-	-	-	-	-	-
	Retro	NO + NC	-	-	-	-	-	-
	Thru-beam	NO + NC	-	-	-	-	-	-
Switching frequency (Hz)			-	-	-	-	-	-
LED Output state indication (✦) / power on LED (★)			-	-	-	-	-	-



### 90° head

All the above Osiris Design 18 sensors are available with integral 90° head. Replace the "N" with a "W". Example: For pre-cabled versions: XUB1APANL2 becomes XUB1APAWL2. For versions with connector: XUB1APANM12 becomes XUB1APAWM12.

## Accessories

Reflectors	(mm)
	Ø 16    XUZC16
	Ø 21    XUZC21
	24 x 21   XUZC24
	Ø 31    XUZC31
	Ø 39    XUZC39
	Ø 80    XUZC80
	50 x 50   XUZC50

■ Reflector sold separately  
▲ Emitter and receiver are sold individually

Mounting Brackets		
		Stainless Steel
		Plastic
For		
XUB...	XUZA118	XUZA218
XUM...	XUZA50	-
XUK...	XUZA51	-
XUX...	XUZX2000	-

Mounting Devices		
Bracket with ball joint for sensors and reflector XUZC50		
For		
XUB...	XUZB2003	
XUM...	XUZM2003	
XUK...	XUZK2003	
XUX...	XUZX2003	



XUC



XUK



XUX

3.9' / 1.2 m (adjustable)	3.28' / 1 m	3.28' / 1 m	6.8' / 2.1 m
29' / 9 m	16' / 5 m	13' / 4 m	36.1' / 11 m
–	29' / 9 m	23' / 7 m	46' / 14 m
196' / 60 m	98' / 30 m	65' / 20 m	131' / 40 m
direct: (Mounting holes 30 / 38 / 40 / 50 / 74) with M5 screws	direct: (40 x 40) with M4 screws		direct: (Mounting holes 30 / 38 / 40 / 50 / 74) with M5 screws
P / 95 x 45 x 44	P / 18 x 50 x 50		P / 91 x 30 x 70
✦	✦		✦

Degree of protection (conforming to IEC 60 529): IP67 (XUK: IP65) / Output state indication and power on LED (⊗): yes

2 meter cable	M12 connector	2 meter cable	M12 connector	screw terminals, M16 gland	M12 connector
		XUK2AKSNL2T	XUK2AKSNM12T	XUX0AKSAT16T	XUX0AKSAM12T
XUC8AKSNL2	XUC8AKSAM12	XUK5APANL2	XUK5APANM12	XUX5APANT16	XUX5APANM12
XUC8AKSNL2	XUC8AKSAM12	XUK5APBNL2	XUK5APBNM12	XUX5APBNT16	XUX5APBNM12
XUC9AKSAL2	XUC9AKSAM12	XUK9APANL2	XUK9APANM12	XUX9APANT16	XUX9APANM12
XUC9AKSAL2	XUC9AKSAM12	XUK9APBNL2	XUK9APBNM12	XUX9APBNT16	XUX9APBNM12
–	–	XUK1APANL2	XUK1APANM12	XUX1APANT16	XUX1APANM12
–	–	XUK1APBNL2	XUK1APBNM12	XUX1APBNT16	XUX1APBNM12
XUC2AKSAL2	XUCZAKSAM12	XUK2APANL2R	XUK2APANM12R	XUX2APANT16R	XUX2APANM12R
XUC2AKSAL2	XUCZAKSAM12	XUK2APBNL2R	XUK2APBNM12R	XUX2APBNT16R	XUX2APBNM12R
10...38	10...38	10...30	10...30	10...36	10...36
500	500	250	250	250	250

Overload and short-circuit protection: YES / Output state LED (⊗): yes / Power on LED (★): yes

Example: XUB1APANL2 becomes XUB1ANANL2

–	–	pre-cabled, L = 2 m	–	screw terminals, M16 gland	–
–	–	XUK2ARCNL2T	–	XUX0ARCTT16T	–
XUC8ARCTL2	XUC8ARCTU78	XUK5ARCNL2	–	XUX5ARCNT16	–
XUC9ARCTL2	XUC9ARCTU78	XUK9ARCNL2	–	XUX9ARCNT16	–
–	–	XUK1ARCNL2	–	XUX1ARCNT16	–
XUC2ARCTL2	XUCZARCTU78	XUK2ARCNL2R	–	XUX2ARCNT16R	–
20	–	20	–	20	–
⊗ / ★	–	⊗ / ★	–	⊗ / ★	–



**Connector innovation**

New, innovative connector that is universal, simple and fast.

For all Telemecanique brand sensors with Snap-C compatible M12 connectors (pointed pins):

- cabling to the required length without using a screwdriver or soldering iron.
- ready in just a few seconds, no stripping required.

Mounting Devices continued

Protective housing with ball joint



For	
XUM...	XUZM2004
XUK...	XUZK2004
XUX...	XUZX2004

M12 rod for ball joint



XUZ2001

Bracket for M12 rod



XUZ2003

Suitable plug-in female connectors, including pre-wired versions

Length 5 m without LED			
	Elbowed	Straight	Snap-C
M8	XSZCS152	XSZCS142	–
M12	XSZCD112Y	XSZCD102Y	XZCC12FDM40V