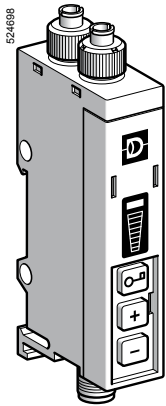


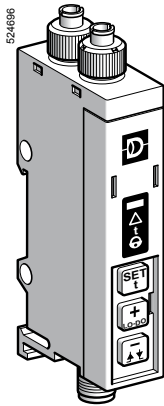
Photo-electric sensors

OsiSense XU Application

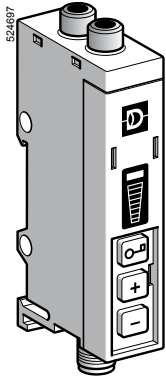
Amplifiers for plastic or glass fibre optics



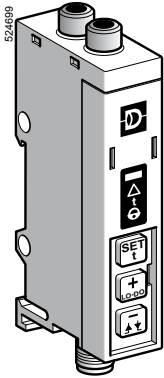
XUYAFP966S



XUYAFP946S



XUYAFV966S



XUYAFV946S

Amplifiers for plastic fibre optics (1)

Sensing distance (Sn) m	Function	Output	Connection	Reference	Weight kg
Adjustment using +/- button (2)					
Depending on fibre	NO/NC	PNP/NPN	Pre-cabled	XUYAFP966S	0.124
	dpg. on wiring		M8 connector	XUYAFPCO966S	0.056

Adjustment using teach mode (3)

Depending on fibre	NO/NC	PNP/NPN	Pre-cabled	XUYAFP946S	0.124
	programmable		M8 connector	XUYAFPCO946S	0.056

Amplifiers for glass fibre optics

Sensing distance (Sn) m	Function	Output	Connection	Reference	Weight kg
Adjustment using +/- button (2)					
Depending on fibre	NO/NC	PNP/NPN	Pre-cabled	XUYAFV966S	0.116
	dpg. on wiring		M8 connector	XUYAFVCO966S	0.047

Adjustment using teach mode (3)

Depending on fibre	NO/NC	PNP/NPN	Pre-cabled	XUYAFV946S	0.124
	programmable		M8 connector	XUYAFVCO946S	0.047

Accessories

Description	Details	Length of cable m	Reference	Weight kg
Pre-wired M8 connector	Straight	2	XZCP0941L2	0.080
	Elbowed (90°)	2	XZCP1041L2	0.080
	Straight	5	XZCP0941L5	0.180
	Elbowed (90°)	5	XZCP1041L5	0.180

(1) Fibre trimmer included

(2) Indication of level by bargraph, adjustment by pressing button

(3) Fine mode or standard mode, adjustment using teach

Characteristics

Sensor type		XUYAF●9●6S	XUYAFCO●6S
Product certifications		CE, cULus (4)	
Connection	Connector	–	M8, 4-pin
	Pre-cabled	Length: 2 m	–
Nominal sensing distance (Sn)		Depending on fibre optic used	
Type of transmission	LED	Red LED	
	Modulation frequency	8 kHz	
Sensitivity adjustment		Using teach (fine mode or standard mode) and/or +/- button, depending on model	
Degree of protection	Conforming to IEC 60529	IP 65	
Ambient air temperature	For storage	°C	- 20...+ 80
	For operation	°C	0...+ 60
Materials		Polycarbonate	
Immunity to ambient light	Incandescent bulb	Lux	10 000
	Natural light	Lux	20 000
Rated supply voltage		V $\overline{\text{---}}$ 12...24 with protection against reverse polarity	
Voltage limits (including ripple)		V $\overline{\text{---}}$ 10...30	
Current consumption, no-load		mA < 40	
Switching capacity		mA 100 with overload and short-circuit protection	
Voltage drop, closed state		V < 2	
Maximum switching frequency		kHz < 1	
External input (5)	Active	V	< 1.4
	Inactive	V	> 3
Delays	Response and recovery	ms	< 0.5
Output time delay (5)	Range	s	0...5 in 11 adjustment increments
	Duration of each increment	ms	First increment 40 ms then 500 ms for each press

(4) This product is UL Listed if supplied by a class II or isolated supply delivering $\overline{\text{---}}$ 30 V max. (isolated transformer for example) and protected by a UL fuse rated at 3 A max.

(5) Only for models with teach mode.

■ Applications using plastic fibre optics

- Monitoring position or presence of parts on an assembly or packing machine
- Detection of objects on small conveyor
- Use of fibre optics in vibratory environments (robot arms)
- Detection of reference and colour marks in packaging

■ Applications with glass fibre optics

- Monitoring position or presence of parts on an assembly or packing machine
- Detection of presence of parts in a plastic mould
- Detection in aggressive environments
- Detection of items exiting an oven (high temperature fibres)