

## Photo-electric sensors

OsiSense XU Application, packaging series

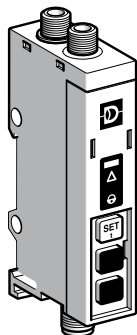
Colour mark readers

With teach mode

DC supply. Solid-state output

### Colour mark reading using plastic fibre optic

Remote reading by coaxial fibre optic



<b>System</b>	<b>Diffuse</b>
<b>Type of transmission</b>	White LED (450 - 650 nm)
<b>Nominal sensing distance (Sn)</b>	<b>18 mm with fibre optic XUYFPDC61/101</b> <b>4 mm with fibre optic XUYFPDCM861/M8101</b>

### References

<b>4-wire, PNP/NPN output</b>	NO/NC function	<b>XUYDCFCO966S (1)</b>
<b>Weight (kg)</b>		0.047

### Characteristics

<b>Product certifications</b>		CE
<b>Ambient air temperature</b>	For operation	0...+ 40 °C
	For storage	- 20...+ 80 °C
<b>Degree of protection</b>	Conforming to IEC 60529	IP 65
<b>Connection</b>		M8 male connector
<b>Materials</b>	Case	Polyamide
	Lens	Polyamide
<b>Rated supply voltage</b>		<b>--- 24 V</b>
<b>Spot diameter</b>		1.5 mm
<b>Modulation frequency</b>		40 kHz
<b>Depth of field</b>		FPDC: + 7/- 5 mm Black/White, + 1/- 3 mm Grey/White FPDCM8: ± 1 mm
<b>Adjustment</b>		By teaching background and mark
<b>Voltage limits</b> (including ripple)		<b>--- 10...30 V with protection against reverse polarity</b>
<b>Immunity to ambient light</b>	Incandescent bulb	10 000 lux
	Natural light	20 000 lux
<b>Switching capacity</b>		<b>100 mA with overload and short-circuit protection</b>
<b>Voltage drop, closed state</b>		< 2 V
<b>Current consumption, no-load</b>		50 mA
<b>Maximum switching frequency</b>		<b>20 kHz</b>
<b>Delays</b>	Response and recovery	25 µs
<b>Output state indication</b>		LED

### Accessories

(1) Sensor XUYDCFCO966S only operates with fibres XUYFPDC●●●● and XUYFPDCM8●●●, to be ordered separately.

Description	Details	Length of fibre	Length of cable	References	Weight
		mm	m		
<b>Integrated fibre optic</b> to be ordered at the same time as the amplifier	M18	600	–	<b>XUYFPDC61</b>	0.100
		1000	–	<b>XUYFPDC101</b>	0.115
	M8	600	–	<b>XUYFPDCM861</b>	0.060
		1000	–	<b>XUYFPDCM8101</b>	0.075
<b>Pre-wired M8 connector</b>	Straight	–	2	<b>XZCP0941L2</b>	0.080
	Elbowed (90°)	–	2	<b>XZCP1041L2</b>	0.080
	Straight	–	5	<b>XZCP0941L5</b>	0.180
	Elbowed (90°)	–	5	<b>XZCP1041L5</b>	0.180