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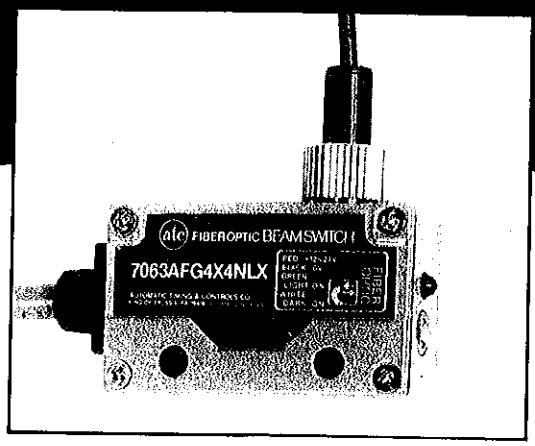
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Find the *Marsh Bellofram / ATC 7063AFR4X4NLX* at our website: *Click HERE*

atc series 7063



FIBER OPTICS

- **Color Discrimination**
- **Rugged Design**
- **High Temperature Probe**

Employing a flexible through-beam or reflective fiber-optic bundle, the ATC 7063A detects very small (0.15 mm dia.) objects or color marks. With a choice of red or green modulated-beam LED light source, it has a virtually unlimited ability to detect color marks on backgrounds of different colors. It forms a complete control system when combined with the ATC 7216A or 7212A controller. It can also interface directly with programmable controllers.

Specifications

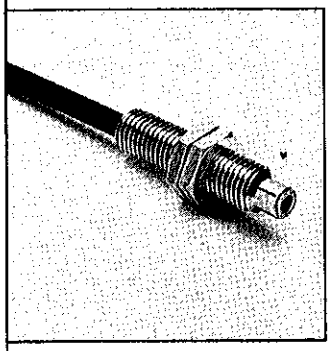
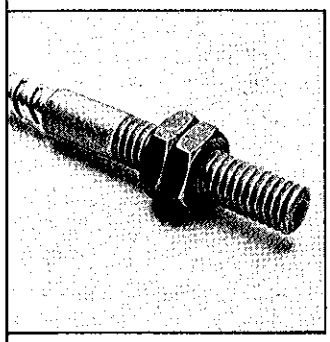
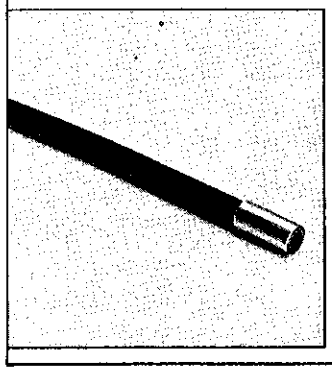
		7063A Through-Beam	7063A Reflective
Sensing[1]	Maximum Distance Min. Target Size	50 mm to 300 mm 1 mm to 4 mm	8 mm to 50 mm .15 mm to .3 mm
Input	Voltage Current	12 to 24 V DC ± 10% (Provided by ATC 7212A, 7216A or 7222A) 45 mA	
Output	Type Capacity Response Time Max. Switching Rate	NPN Transistor 80 mA Maximum Switching Current 3 ms 166 Hz (50% Duty Cycle)	
Features	Time Delay[2] Operating Mode Status Indicator Sensitivity	Available with Amplifiers—7212A, 7216A Light—On/Dark On Wiring Selectable Output On Adjustable—One Turn Potentiometer	
Environmental	Ambient Temperature Humidity	Sensor: 14° F to 140° F, −10° C to 60° C Cables: −4° F to 150° F, −20° C to 70° C Probe: −4° F to 212° F, −20° C to 100° C Meets IP-62 (IEC), NEMA 3, 6, 12, 13, Splashproof	
Physical	Housing Light Emitting Element Weight Wiring	Water-Tight Zinc Alloy Die Casting Choice of Red or Green Modulated LED Net: 5.2 oz. (150g) Shipping: 7.2 oz. (207g) 4 Conductor Cable, 39 Inches (1m)	

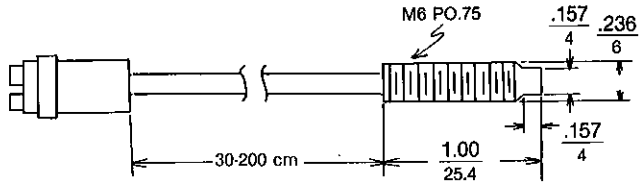
[1] See Fiber and LED Specifications
[2] See Appropriate Amplifier/Controllers

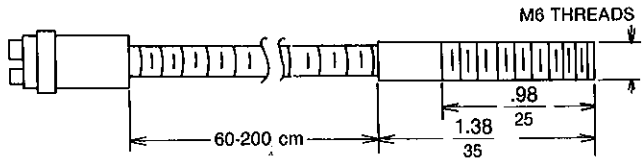
FIBER OPTIC CABLES – 7063 Compatible

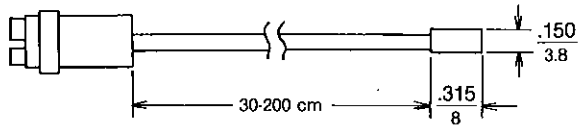
These flexible through beam or reflective fiber optic bundles, compatible with the 7063, are able to detect very small (0.006 in. dia.) objects in a wide range of application configurations and sensing distances (to 12 in.). They form a complete control system when combined with the ATC 7216 or 7212 controller and can be interfaced directly with programmable controllers.

Reflective Fibers

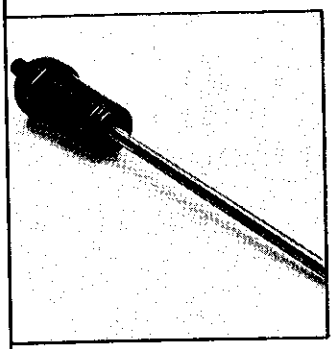
REFLECTIVE FIBERS	CATALOG NUMBER
	**70632701100** **70632701200** **70632701300** **70632701400** These reflective fibers have threaded brass ends. Cable lengths vary from 30 cm for the 70632701100 to 200 cm for the 70632701400.
	**70632702100** **70632702200** **70632702300** With aluminum armor sheathing this reflective fiber has a smooth aluminum end and may be used in extreme temperatures ranging from -40° to 554°F. (-40° to 290°C.) The cable length varies from 60 cm to 200 cm.
	**70632711100** **70632711200** **70632711300** **70632711400** These reflective fibers have smooth cylindrical brass ends. Cable lengths vary from 30 cm for the 70632711100 to 200 cm for the 70632711400.





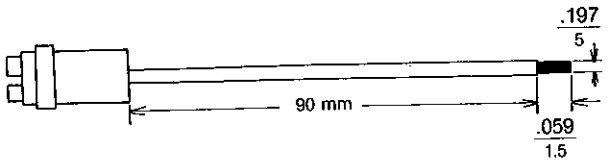


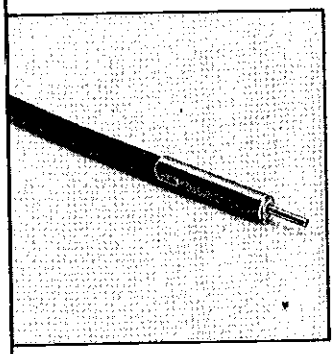
REFLECTIVE FIBERS CATALOG NUMBER



70632711500

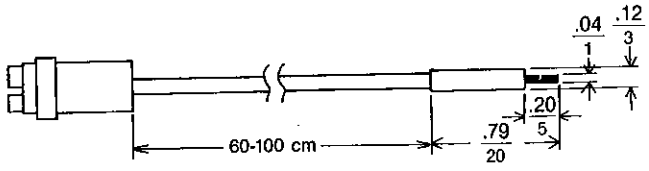
This reflective fiber is in the form of a very small diameter probe. Made of stainless steel, it is bendable and can be formed holding a 10 mm radius.

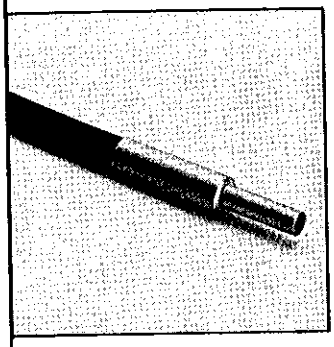




70632711600
70632710900

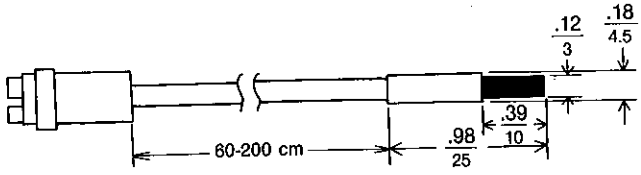
With an extremely small end tip, this reflective fiber has a stainless steel tip and a cable length that varies from 60 cm to 100 cm.

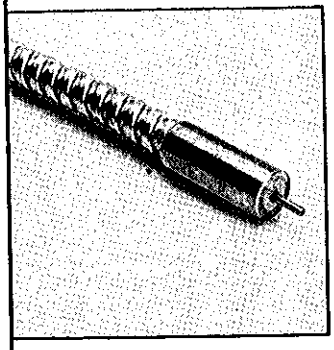




70632711700
70632711800
70632711900

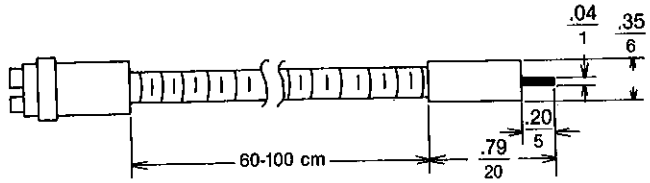
A small smooth cylindrical reflective fiber with an aluminum casing and a cable length that varies from 60 cm to 200 cm.

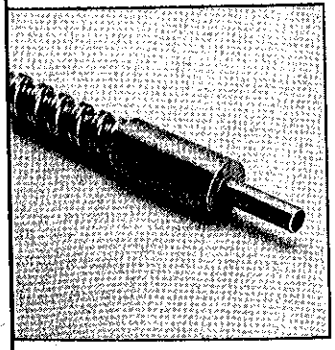




70632712100
70632712500

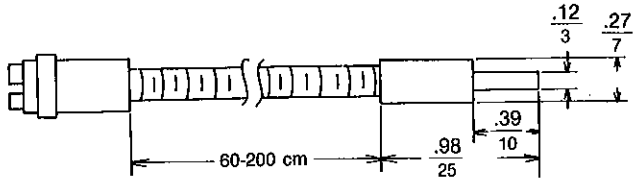
This very small reflective fiber has an aluminum armor sheathing and can be used in extreme temperatures ranging from -40° to 554°F. (-40° to 290°C.) The cable length varies from 60 cm to 100 cm.



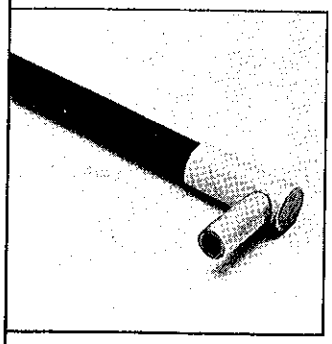


70632712200
70632712300
70632712400

With aluminum armor sheathing, this small reflective fiber has a smooth cylindrical aluminum end and may be used in extreme temperatures ranging from -40° to 554°F. (-40° to 290°C.) The cable length varies from 60 cm to 200 cm.

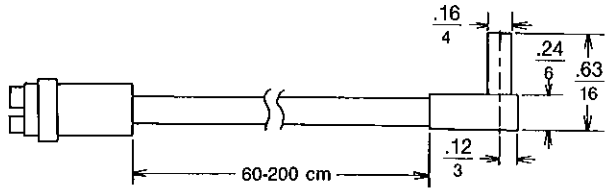


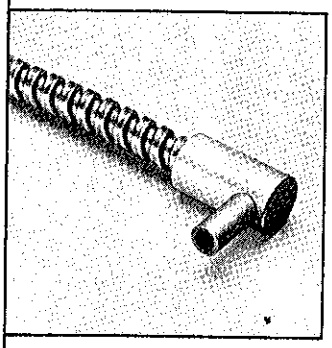
REFLECTIVE FIBERS CATALOG NUMBER



70632731100
70632731200
70632731300

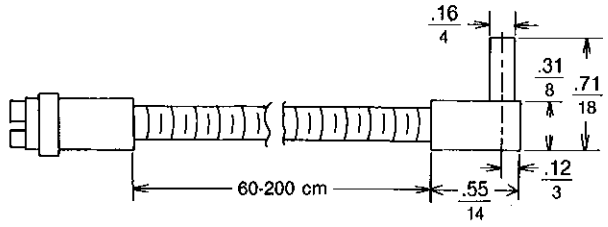
This reflective fiber has a small smooth aluminum end which is at a right angle to the cable. The cable length varies from 60 to 200 cm.





70632732100
70632732200
70632732300

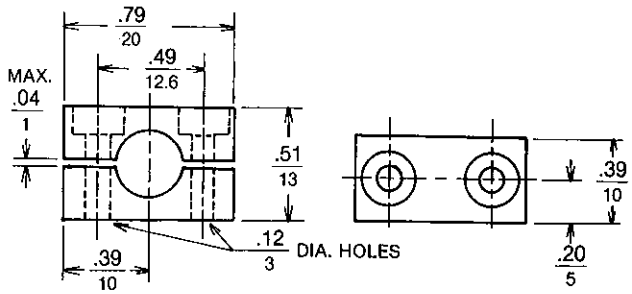
With a smooth cylindrical aluminum tip formed at a right angle to the cable, this reflective fiber has an aluminum armor sheathing with a cable length of 60 cm.



70633200100

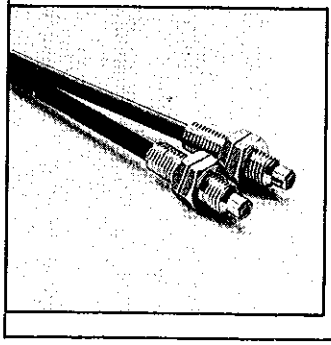
MOUNTING BRACKET

Provided as standard with some cables.



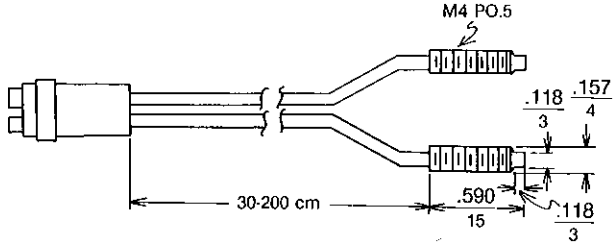
Through-Beam Fibers

THROUGH-BEAM FIBERS



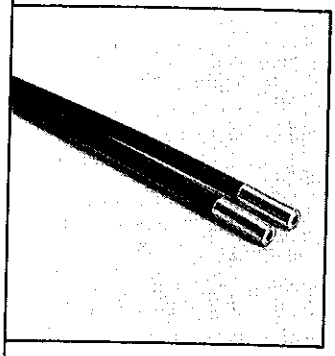
70632700100
70632700200
70632700300
70632700400

These are through-beam fibers with threaded brass ends. Cable lengths vary from 30 cm for the 70632700100 to 200 cm for the 70632700400.



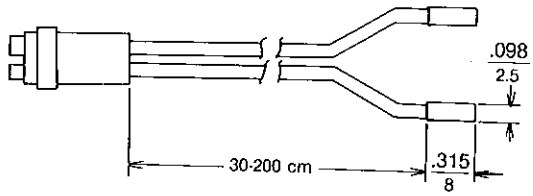
THROUGH-BEAM FIBERS

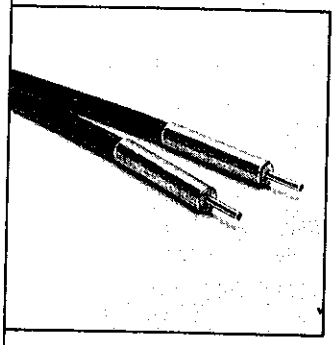
CATALOG NUMBER



70632710100
70632710200
70632710300
70632710400

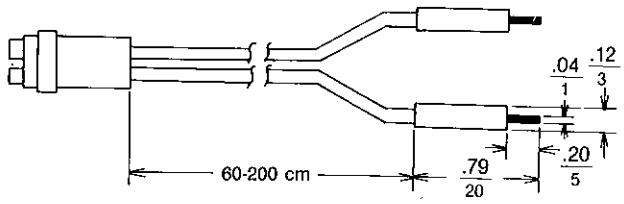
These through-beam fibers have smooth cylindrical brass ends. Cable lengths vary from 30 cm for the 70632710100 to 200 cm for the 70632710400.

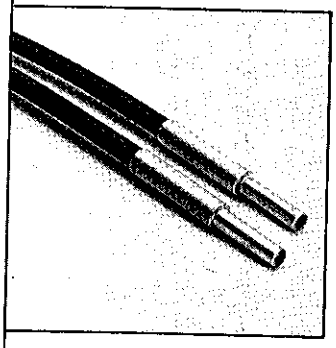




70632710500
70632712000
70632711000

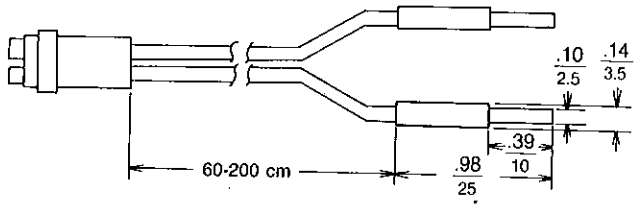
With an extremely small stainless steel tip, this through-beam fiber has a cable length that varies from 60 cm to 200 cm.

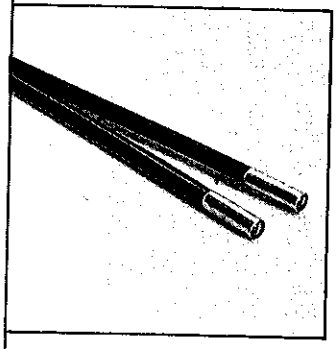




70632710600
70632710700
70632710800

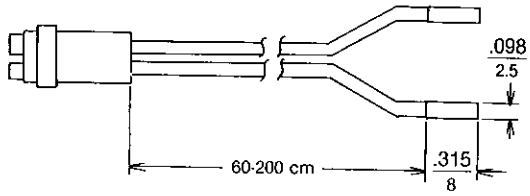
This through-beam filter has a small smooth aluminum cylindrical tip with a cable length that varies from 60 cm to 200 cm.

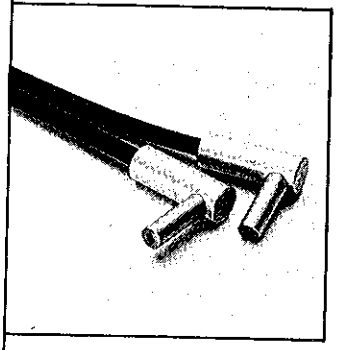




70632720200
70632720300
70632720400

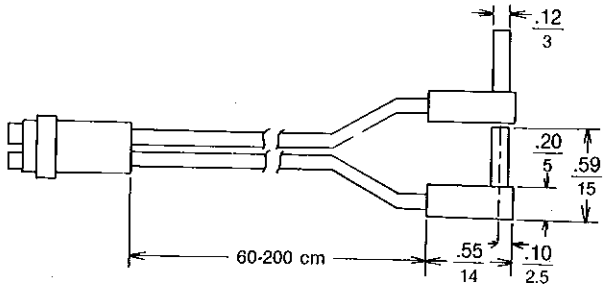
Equipped with lenses in the brass ends which greatly increase the range of these through-beam fibers. Cable lengths vary from 60 cm for the 70632720200 to 200 cm for the 70632720400.





70632730100
70632730200
70632730300

This through-beam fiber's smooth aluminum end is at a right angle to the cable which varies from 60 cm to 200 cm in length.



atc series 7063

COLOR DISCRIMINATION

The 7063 can detect color marks on different color backgrounds when the appropriate LED light source option is chosen (See Table to right).

COLOR OF BACKGROUND	COLOR OF MARK						
	Black	Red	Orange	Yellow	Green	Blue	White
White	R/G	G	G	—	G/R	G/R	—
Blue	—	R	G/R	G/R	—	—	G/R
Green	—	R	G/R	G/R	—	—	G/R
Yellow	G/R	G	—	—	G/R	G/R	—
Orange	G/R	G	—	—	G/R	G/R	—
Red	R	—	G	G	R	R	G
Black	—	R	G/R	G/R	—	—	G/R

R: red LED G: green LED

FIBER SPECIFICATIONS

	PART NUMBER			CABLE		SENSING DISTANCE	MINIMUM TARGET SIZE	MINIMUM BEND RADIUS
	THREADED	CYLINDRICAL	RIGHT ANGLE	SHEATH*	LENGTH			
THROUGH-BEAM	70632700100			PYH	30 cm	100 mm	1 mm	30 mm
	70632700200			PYH	60 cm	100 mm	1 mm	30 mm
	70632700300			PYH	100 cm	100 mm	1 mm	30 mm
	70632700400			PYH	200 cm	100 mm	1 mm	30 mm
		70632710100		PYH	30 cm	100 mm	1 mm	30 mm
		70632710200		PYH	60 cm	100 mm	1 mm	30 mm
		70632710300		PYH	100 cm	100 mm	1 mm	30 mm
		70632710400		PYH	200 cm	100 mm	1 mm	30 mm
		70632710500		PVC	60 cm	50 mm	1 mm	10 mm
		70632712000		PVC	100 cm	50 mm	1 mm	10 mm
		70632711000		PVC	200 cm	50 mm	1 mm	10 mm
		70632710600		PVC	60 cm	120 mm	2.5 mm	10 mm
		70632710700		PVC	100 cm	120 mm	2.5 mm	10 mm
		70632710800		PVC	200 cm	120 mm	2.5 mm	10 mm
		70632720200		PYH	60 cm	300 mm	2 mm	30 mm
		70632720300		PYH	100 cm	300 mm	2 mm	30 mm
		70632720400		PYH	200 cm	300 mm	2 mm	30 mm
			70632730100	PVC	60 cm	120 mm	3 mm	10 mm
			70632730200	PVC	100 cm	120 mm	3 mm	10 mm
			70632730300	PVC	200 cm	120 mm	3 mm	10 mm
REFLECTIVE	70632701100			PYH	30 cm	50 mm	0.15 mm	30 mm
	70632701200			PYH	60 cm	45 mm	0.15 mm	30 mm
	70632701300			PYH	100 cm	40 mm	0.15 mm	30 mm
	70632701400			PYH	200 cm	20 mm	0.15 mm	30 mm
	70632702100			ARMOR	60 cm	40 mm	0.3 mm	20 mm
	70632702200			ARMOR	100 cm	35 mm	0.3 mm	20 mm
	70632702300			ARMOR	200 cm	20 mm	0.3 mm	20 mm
		70632711100		PYH	30 cm	50 mm	0.15 mm	30 mm
		70632711200		PYH	60 cm	45 mm	0.15 mm	30 mm
		70632711300		PYH	100 cm	40 mm	0.15 mm	30 mm
		70632711400		PYH	200 cm	20 mm	0.15 mm	30 mm
		70632711500		S.S.	90 cm	15 mm	0.2 mm	10 mm
		70632711600		PVC	60 cm	8 mm	0.3 mm	20 mm
		70632710900		PVC	100 cm	6 mm	0.3 mm	20 mm
		70632711700		PVC	60 cm	40 mm	0.3 mm	20 mm
		70632711800		PVC	100 cm	35 mm	0.3 mm	20 mm
		70632711900		PVC	200 cm	20 mm	0.3 mm	20 mm
		70632712100		ARMOR	60 cm	8 mm	0.3 mm	20 mm
		70632712500		ARMOR	100 cm	6 mm	0.3 mm	20 mm
		70632712200		ARMOR	60 cm	40 mm	0.3 mm	20 mm
		70632712300		ARMOR	100 cm	35 mm	0.3 mm	20 mm
		70632712400		ARMOR	200 cm	20 mm	0.3 mm	20 mm
			70632731100	PVC	60 cm	40 mm	0.3 mm	20 mm
			70632731200	PVC	100 cm	35 mm	0.3 mm	20 mm
			70632731300	PVC	200 cm	20 mm	0.3 mm	20 mm
			70632732100	ARMOR	60 cm	40 mm	0.3 mm	20 mm
			70632732200	ARMOR	100 cm	35 mm	0.3 mm	20 mm
			70632732300	ARMOR	200 cm	20 mm	0.3 mm	20 mm

PYH – Polyethylene; PVC – Polyvinylchloride; S.S. – Stainless Steel

Ordering Codes

ORDERING CODE 7063A F R 4 X 4 N L X

BASIC MODEL

TYPE
- **F** Fiber Optic

SOURCE
- **R** Red modulated-beam LED
- **G** Green modulated-beam LED

OPERATION
- **4** Light/Dark operate

DELAY
- **X** No delay

NUMBER OF WIRES
- **4** Four wires

POWER REQUIREMENT
- **N** 24V DC

OUTPUT
- **L** Logic (NPN)

FEATURES
- **X** Standard

ACCESSORIES Fiber Optic Cables
One required for operation

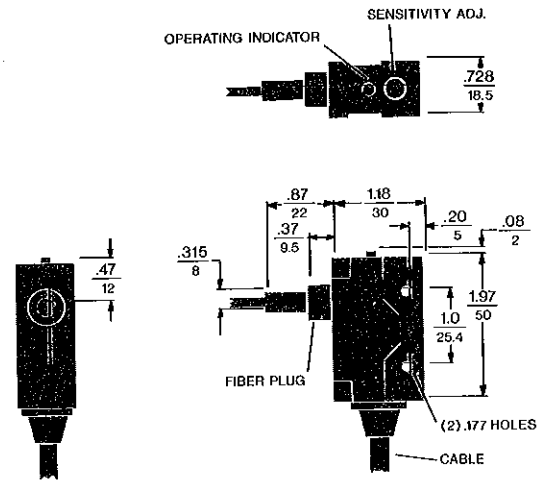
70632700100	70632711400
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70632701300	70632712000
70632701400	70632712100
70632702100	70632712200
70632702200	70632712300
70632702300	70632712400
	70632712500
70632710100	70632720200
70632710200	70632720300
70632710300	70632720400
70632710400	
70632710500	70632730100
70632710600	70632730200
70632710700	70632730300
70632710800	70632731100
70632710900	70632731200
70632711000	70632731300
70632711100	70632732100
70632711200	70632732200
70632711300	70632732300

REPLACEMENT PARTS

00007158400	Metal Nuts M4PO.5
00007158500	Metal Nuts M6PO.75
70637750100	Fixing Ring

DIMENSIONS

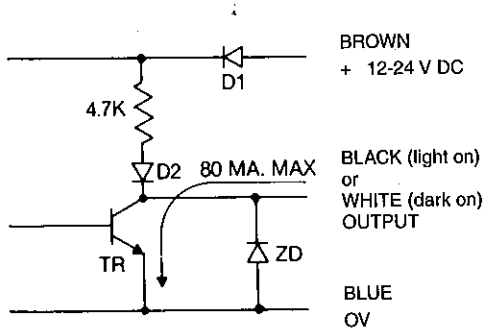
INCHES
MILLIMETERS



CONVERSION FACTORS

To Convert	Multiply By	To Obtain
mm	0.03937	in.
M	3.281	ft.
g	.0353	oz.
Kg cm	.07	ft.lb.

WIRING



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