## Sensors & Transducers Farnell

Fibre Optic Photoswitches — continued					
Miniature – F1 Series	<i>SEEKA</i> -TAKEX				
FI	<ul> <li>Multi-turn sensitivity adjustment with a 3-LED indication for accurate setting</li> <li>Light-on/dark-on operation is switch selectable</li> <li>Optional 50ms output pulse extension ensures fast moving targets give an output</li> <li>Self-diagnostic failsafe output to indicate a dirty fibre head or trapped cable</li> </ul>				
	H = 36, W = 12, L = 52, Cable L = 2m				
Visible red light source fibre optic amplifier designed to be used in conjunction with Seeka-Takex <sup>®</sup> fibres shown below. The sensor can be mounted either directly onto DIN rail or separately by means of the bracket supplied.					
Supply voltage 12 to 24V dc ± Current consumption 35mA	10%				

Current consumption	on 35mA			
Output	NPN or PNP open collector 100mA (30V dc)			
	with short circuit protection			
Response time	0.5ms			
Light source	Red LED (660nm)			
Temperature range	-25°C to +55°C			
Mftrs. List No.	F1R-NPN = 279-651, F1R-PNP = 279-663			

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	Price Each				
Output	Order Code	1+	5+	10+	
NPN	279-651				
PNP	279-663				

## Touch-to-Teach - F10 Series

SEEKA-TAKEX

SEN108>

H = 34, W = 13, D = 68, Cable L = 2m

- 'Touch-to-Teach' facility for easy setting Self-diagnostic failsafe output indicates a dirty fibre head or trapped cable Light-on/dark-on operation is switch selectable
- Optional 50ms output pulse extension ensures fast moving targets give an output
- ABS housing with polycarbonate cover, sealing to IP66

Fibre optic ampliifer designed to be used in conjunction with the Seeka-Takex® fibres shown on page 1390. The sensor can be mounted either directly onto DIN rail or separately by means of the bracket supplied.

## Touch-To-Teach facility

The amplifier is set by simply pressing the set button when the target is present in front of the fibre head. Once set the sensor will continue to reliably detect the target each time it is presented in front of the sensing head. This teaching methoid can also be implemented remotely from a push button or PLC.

Supply voltage Current consumption Output	12 to 24V dc $\pm$ 10% 50mA max. NPN or PNP open collector 50mA (40V dc) with short circuit protection	External input Response time Light source Temperature range	Contact or solid stat 0.5ms Red LED (680nm) -25°C to +55°C	е
Mftrs. List No. F	10R-NPN = 532-575, F10R	-PNP = 532-587		SEN126

Output	Order Code	1+	5+	10+
NPN	532-575			
PNP	532-587			

**Fibre Leads** 

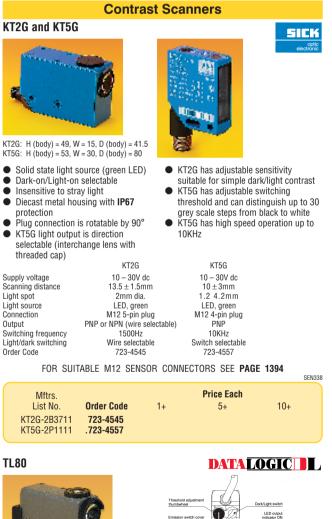


Range of fibre leads for use with SEEKA-Takex® amplifiers and similar. All fibres are supplied 2 metres long and can be cut to length using the miniature guillotine supplied.

Sensing distance when used with:-		F1 Amplifier	F2 Amplifier	F10 Amplifier
279-699 (standard fibre – diffuse)		40mm	35mm	90mm
279-705 (standard fibre – separate)		100mm	80mm	230mm
678-934 (flex nose fibre – diffuse)		10mm	9mm	20mm
678-946 (flex nose fibre – separate)		35mm	30mm	50mm
678-958 (diffuse fibre with protection)		40mm	35mm	90mm
678-960 (small object detection)		0.3mm r	esolution at 10n	nm range
678-971 (90 degree lens to be used with 2	279-705)	300mm	240mm	690mm
Minimum bending radius (fibre)	,	279-705, 678-95	,	
Minimum bending radius (nose)		678-946 = 10mn		
Minimum object resolution (best case)		678-958 = 0.03n = 0.5mm, 279-70		1.05mm,
Temperature range	-30°C to	70°C		
Fibre length	2 metres	cuttable to length	1	

Mftrs. List No. FR5BC = 279-699, FT5BC = 279-705, FRS8BC = 678-934, FTS8BC = 678-946, FR7BC + FA6SP10 = 678-958, FX8401BC + FA200 = 678-960, FA12-F5 = 678-971. SEN216Y

			Price Each	
	Order Code	1+	5+	10+
Standard fibre – diffuse	279-699			
Standard fibre – separate	279-705			
Flex nose fibre – diffuse	678-934			
Flex nose fibre – separate	678-946			
Diffuse fibre with protection	678-958			
Coax fibre with focusing head	678-960			
90° lens attachment for 279-705	678-971			



## ୲ୄୄୄୄୖ୶ୖୄୄୄ Control Panel Connections H = 63. W = 30. D = 87 White = NPN/PNP output Brown = 10 to 30V dc Shielded cable L = 3m Blue = 0V Grey = analogue output 10 to 30V dc supply Selectable NPN/PNP output Dark-on/light-on switching selection Simple contrast threshold adjustment Output status indicator LED Selectable red/green LED light source • 3 metre cable length Industry standard IP67 metal housing High performance contrast scanner for all print registration and positioning applications.

1390 Electronic, Electrical and Mechanical Prices are in Singapore Dollars and exclusive of GST