Fibre-optic amplifiers transmit and receive their signal via an attached fibre-optic cable with an optic sensor on the end. The fibre sensor determines the type of sensing as well as the distance it can sense. Totally unaffected by any source of electrical noise.

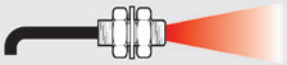
FX-551P

type	supply voltage	diffused	retro-reflective	polarised retro	through-beam	sensing distance (mm)	PNP	NPN	light-on	dark-on	connector
FX-551 series - advanced fibre optic amplifier *DIN rail mounting*											
Significantly improved stability and operation ease, due to industry's top emission power. – 3 times higher emission power and 1.6 times longer sensing range than conventional models. – Simplified functions for improved operation ease. • Connection: Connector with cable *(supplied separately)* • Sensitivity setting: 2-point teaching / Limit teaching / Full-auto teaching / Manual setting • Timer function: ON-delay, OFF-delay, One shot, no timer *(selectable)* 0.1ms - 32sec • Dimensions: 32 x 10 x 75 mm											
Amplifier for optical fibres											
FX-551P	12 - 24 VDC					dependant on fibre used	•		•	•	connector
Accessories for above FX551 amplifiers											
CN73C2	main cable with connector for above amplifier *(2 meter)*										connector
CN73C5	main cable with connector for above amplifier *(5 meter)*										connector
CN71C2	sub cable with connector for above amplifier *(2 meter)*										connector

Optical fibre sensors for above amplifiers

Due to the vast range of optical fibres available, we illustrate a basic range *(indicated below)*
Vast range of available optical fibre sensors available, request fibre guide, available as a PDF file

type	supply voltage	diffused	retro-reflective	polarised retro	through-beam	max. sensing distance(mm) FX102	max. sensing distance(mm) FX551 hyper mode	cuttable fibre	head type	fibre length
Reflective types	proximity type detection *(no transmitter or reflector required)*									
Cylindrical threaded body *(straight)*	*(IP67)*									
FD-31	M3				•	140	750	yes	cylindrical	2 met
FD-41	M4				•	140	750	yes	cylindrical	2 met
FD-61	M6				•	410	1630	yes	cylindrical	2 met
Square threaded body *(right angled)*										
FD-R32G	M3				•	150	1150	yes	square	2 met
FD-R42G	M4				•	170	1150	yes	square	2 met
Protective tube *(for FD series reflective fibres)*										
FDPN500	M4	non-corrosive stainless steel protective tube for								0.5 met
FDPN1000	M4	non-corrosive stainless steel protective tube for								1.0 met
FDPN1500	M4	non-corrosive stainless steel protective tube for								1.5 met
Thru-beam types	supplied as a set with transmitter and receiver									
Cylindrical threaded body *(straight)*										
FT-31	M3				•	340	1580	yes	cylindrical	2 met
FT-42	M4				•	800	3600	yes	cylindrical	2 met
Square threaded body *(right angled)*										
FT-R31	M3				•	340	1670	yes	square	2 met
FT-R43	M4				•	640	3600	yes	square	2 met
High temperature fibres										
FT-H20-W-M1	+200°C				•	300	1450	no	cylindrical	1 met
FT-H35-M2S6	+350°C				•	490	2400	no	cylindrical	2 met
Expansion lenses *(for thru-beam type fibres)*	-60 to +350°C									
For fibers: FT-42/43, FT-H20W-M1, FT-H35-M2S6										
FX-LE1	M4	fibre expansion lens side view 90° beam axis								FT-42/43
FX-SV1	M4	fibre expansion lens *(5 times increased sensing)*								FT-42/43
Protective tube *(for FT series thru-beam fibres)*										
FTP500	M4	non-corrosive stainless steel protective tube for								0.5 met
FTP1000	M4	non-corrosive stainless steel protective tube for								1.0 met
FTP1500	M4	non-corrosive stainless steel protective tube for								1.5 met
Fibre accessories										
FXCT1		fibre cutting tool *(to cut fibres to desired length)*								


Reflective types


Thru-beam types