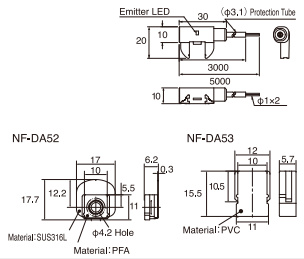
Specifications (Leakage Detect)

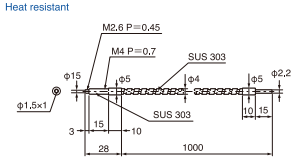
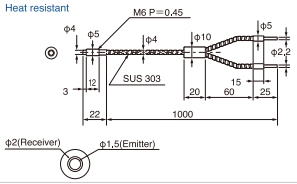
	Sensing head	Sensing conditions	Operation temperature (℃~℃)	Radius (mm)	Part Number
Leakage detect / Square	Free cut 	Corresponds to SEMI S2 Requires fixture for installation; NF-DA52 (SUS) NF-DA53 (PVC)	−20~50	protective tube R=20 fiber R=4	NF-DW02

Operating humidity is 35~85%RH. Please use in 0~40℃ when it's 85%RH.

Detection of water

Fiber cables for use with Optex IR type amplifers for reliable detection of water in clear containers

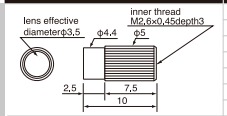
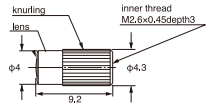
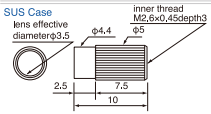
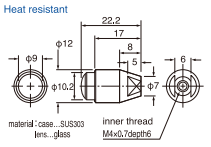
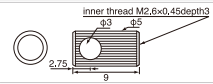
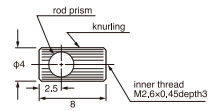
Specifications (Thru-beam/Diffuse)

		Sensing head	Sensing distance (unit-mm) by Infrared-type Amplifiers		Operation temperature (℃~℃)	Radius (mm)	Part Number
			D3IF series (by operating mode)	BIF series			
Thru-beam	M4	Heat resistant 	7-EL 650 6-UL 350 5-PL 300 4-LG 250 3-ST 230 2-FS 150 1-HS 60	100	−40~200	R=25	NF-TW01
Diffuse	M6	Heat resistant 	7-EL 280 6-UL 125 5-PL 110 4-LG 100 3-ST 85 2-FS 45 1-HS 20	30	−40~200	R=25	NF-DW01

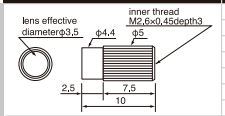
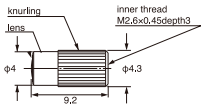
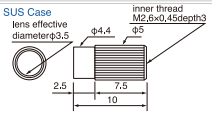
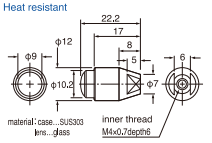
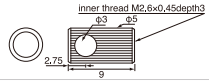
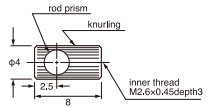
Operating humidity is 35~85%RH. Please use in 0~40℃ when it's 85%RH
Sensing distance of diffuse type is for 500 x 500mm white paper.

LENS FOR THRU-BEAM FIBERS

Straight and 90 degree add-on lenses for increasing sensing distances

	Dimentions (mm)	Applicable fiber cable	D3RF Sensing distance(mm) 7-EL	6-UL	5-PL	4-LG	3-ST	2-FS	1HS	Operation temperature (℃~℃)	Part number
Long distance		NF-TB01	4,000	4,000	4,000	4,000	4,000	2,500	800	−40~100	NF-TA01
		NF-TB02	4,000	4,000	4,000	4,000	4,000	4,000	1,800		
		NF-TB06	4,000	4,000	4,000	4,000	4,000	4,000	1,500		
		NF-TJ01	2,000	2,000	2,000	2,000	2,000	2,000	750		
		NF-TR01	4,000	4,000	4,000	4,000	4,000	4,000	1,800		
		NF-TK77	4,000	4,000	4,000	4,000	4,000	4,000	2,000		
		NF-TH01	4,000	4,000	3,200	2,700	2,500	1,400	500		
	Heat resistant 	NF-TB01	4,000	4,000	4,000	4,000	4,000	2,000	360	−40~350	NF-TA03
		NF-TB02	4,000	4,000	4,000	4,000	4,000	4,000	1,200		
		NF-TB06	4,000	4,000	4,000	4,000	4,000	4,000	1,200		
		NF-TJ01	2,000	2,000	2,000	2,000	2,000	2,000	600		
		NF-TR01	4,000	4,000	4,000	4,000	4,000	2,000	800		
		NF-TK77	4,000	4,000	4,000	4,000	4,000	2,000	600		
		NF-TH01	4,000	4,000	4,000	4,000	4,000	2,000	1,200		
		NF-TH08	4,000	4,000	4,000	4,000	4,000	2,000	800		
		NF-TH10	2,000	2,000	2,000	2,000	2,000	2,000	750		
		NF-TH11	2,000	2,000	2,000	2,000	2,000	2,000	1,000		
	SUS Case 	NF-TB01	4,000	4,000	4,000	4,000	4,000	2,500	800	−40~100	NF-TA01S
		NF-TB02	4,000	4,000	4,000	4,000	4,000	4,000	1,800		
		NF-TB06	4,000	4,000	4,000	4,000	4,000	4,000	1,500		
		NF-TJ01	2,000	2,000	2,000	2,000	2,000	2,000	650		
		NF-TR01	4,000	4,000	4,000	4,000	4,000	4,000	1,800		
		NF-TK77	4,000	4,000	4,000	4,000	4,000	4,000	2,000		
		NF-TH01	4,000	4,000	3,200	2,700	2,500	1,400	500		
Super Long distance	Heat resistant 	NF-TB01	4,000	4,000	4,000	4,000	4,000	4,000	4,000	−60~350	NF-TA04
		NF-TB02	4,000	4,000	4,000	4,000	4,000	4,000	4,000		
		NF-TB06	4,000	4,000	4,000	4,000	4,000	4,000	4,000		
		NF-TJ01	2,000	2,000	2,000	2,000	2,000	2,000	2,000		
		NF-TR01	4,000	4,000	4,000	4,000	4,000	4,000	4,000		
		NF-TK77	4,000	4,000	4,000	4,000	4,000	4,000	4,000		
		NF-TH01	4,000	4,000	4,000	4,000	4,000	4,000	4,000		
		NF-TH08	4,000	4,000	4,000	4,000	4,000	4,000	4,000		
		NF-TH10	2,000	2,000	2,000	2,000	2,000	2,000	2,000		
		NF-TH11	2,000	2,000	2,000	2,000	2,000	2,000	2,000		
Side view		NF-TB01	3,600	2,500	2,000	1,600	1,200	650	200	−40~70	NF-TA02
		NF-TB02	4,000	3,500	3,000	2,400	1,800	1,000	300		
		NF-TJ01	4,000	1,900	1,600	1,500	950	600	200		
		NF-TR01	4,000	3,300	2,400	2,000	1,500	900	200		
		NF-TK77	4,000	3,500	3,000	2,400	1,800	950	300		
	Heat resistant 	NF-TB01	4,000	2,400	2,300	2,000	1,200	800	250	−60~300	NF-TA05
		NF-TB02	4,000	2,400	2,300	2,000	1,200	800	250		
		NF-TJ01	4,000	1,900	1,700	1,500	950	600	200		
		NF-TR01	4,000	1,700	1,600	1,300	850	550	160		
		NF-TK77	4,000	1,900	1,700	1,500	950	600	200		
		NF-TH01	4,000	1,500	1,300	1,200	800	450	160		
		NF-TH08	4,000	1,600	1,500	1,200	800	550	170		
		NF-TH10	2,000	1,100	1,000	850	600	300	100		
		NF-TH11	4,000	1,400	1,200	1,100	700	400	150		

Operating humidity is 35~85%RH. Please use in 0~40℃ when it's 85%RH

	Dimentions (mm)	Applicable fiber cable	Sensing distance(mm)				Operation temperature (℃～℃)	Part number
			D2RF			BRF		
			Long	Std	Fast			
Long distance		NF-TB01	3,500	3,500	1,500	3,000	−40～100	NF-TA01
		NF-TB02	3,500	3,500	1,500	3,500		
		NF-TB06	3,500	3,500	3,500	3,500		
		NF-TJ01	1,500	1,500	1,500	1,500		
		NF-TR01	3,500	3,500	3,000	3,000		
		NF-TK77	3,500	3,500	3,000	3,500		
		NF-TH01	3,500	3,500	2,500	3,500		
	Heat resistant 	NF-TB01	3,500	3,500	600	3,500	−40～350	NF-TA03
		NF-TB02	3,500	3,500	3,000	3,500		
		NF-TB06	3,500	3,500	2,800	3,500		
		NF-TJ01	1,500	1,500	1,500	1,500		
		NF-TR01	3,500	3,500	2,000	2,500		
		NF-TK77	3,500	3,500	1,700	3,500		
		NF-TH01	3,500	3,500	2,700	3,500		
		NF-TH08	3,500	3,500	1,900	2,100		
		NF-TH10	1,500	1,500	1,500	1,500		
		NF-TH11	1,500	1,500	1,500	1,500		
	SUS Case 	NF-TB01	3,500	3,500	1,500	3,000	−40～100	NF-TA01S
		NF-TB02	3,500	3,500	1,500	3,500		
		NF-TB06	3,500	3,500	3,500	3,500		
		NF-TJ01	1,500	1,500	1,500	1,500		
		NF-TR01	3,500	3,500	3,000	3,000		
		NF-TK77	3,500	3,500	3,000	3,500		
		NF-TH01	3,500	3,500	2,500	3,500		
Super Long distance	Heat resistant 	NF-TB01	3,500	3,500	3,500	3,500	−60～350	NF-TA04
		NF-TB02	3,500	3,500	3,500	3,500		
		NF-TB06	3,500	3,500	3,500	3,500		
		NF-TJ01	1,500	1,500	1,500	1,500		
		NF-TR01	3,500	3,500	3,500	3,500		
		NF-TK77	3,500	3,500	3,500	3,500		
		NF-TH01	3,500	3,500	3,500	3,500		
		NF-TH08	3,500	3,500	3,500	3,500		
		NF-TH10	1,500	1,500	1,500	1,500		
		NF-TH11	1,500	1,500	1,500	1,500		
Side view		NF-TB01	1,500	800	400	600	−40～70	NF-TA02
		NF-TB02	1,500	1,000	450	600		
		NF-TJ01	1,500	800	450	500		
		NF-TR01	1,000	700	450	500		
		NF-TK77	1,500	800	450	600		
	Heat resistant 	NF-TB01	1,800	900	400	500	−60～300	NF-TA05
		NF-TB02	1,800	900	400	500		
		NF-TJ01	1,300	600	300	400		
		NF-TR01	1,100	600	250	350		
		NF-TK77	1,300	600	300	400		
		NF-TH01	1,000	500	250	400		
		NF-TH08	1,100	600	250	350		
		NF-TH10	700	300	180	300		
		NF-TH11	900	500	250	350		

Operating humidity is 35~85%RH. Please use in 0~40℃ when it's 85%RH

WARNINGS

Please use this product correctly.
Do Not use this product for personnel protection.