

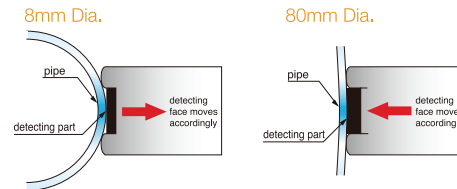
LIQUID LEVEL & LIQUID LEAK DETECTION



Choose from pipe-mountable or PFA protected contact type for level detecting and compact PFA encased for leak sensing.

Liquid level: pipe mount type

Mounts to pipe diameters from 3mm to 80mm in diameter. NF-DF07 extremely resistant to foam and bubbles.



Liquid level: contact type

Unique multistep tip design prevents accumulation of liquid at the tip of the sensor head.



3 types of joint are available;

NF-DA54 for Liquid inflow prevention type

NF-DA55 for Protective tube mounting

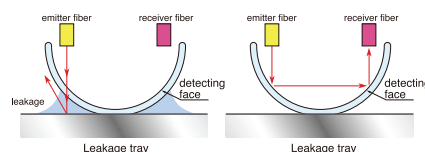
NF-DA56 for fiber cable mounting



You can procure ferrule for joint above; NF-DA57

Leakage type

It detects liquid leakage on the surface of flat pan.



When liquid leaked, the light diffuses at the leakage and doesn't get to receiver.

The light reflects at the detecting face and the light comes into receiver.

Specifications (Liquid Level)

	Sensing head	Sensing conditions	Operation temperature (°C ~ °C)	Radius (mm)	Part Number
Liquid level	For detecting the limit upwards Free cut	Array type, best for liquid with bubbles. For transparent pipe of the outer diameter bigger than 8mm.	-40~70	R=10	NF-DF07
	For detecting the limit downwards Free cut	For PFA / transparent pipe of the outer diameter between 3 and 10 mm with width of 0.3 - 1.0mm.	-20~60	protective tube R=20 Bending radius R=4	NF-TF01
	Upper level detecting Heat resistant Free cut	Position adjuster gives freedom of installation. For PFA / transparent pipe of the outer diameter between 6 and 26 mm with width of 1.0mm.	-40~100	R=10	NF-DF05
	Upper level detecting Heat resistant Free cut	Position adjuster gives freedom of installation. For PFA / transparent pipe of the outer diameter between 6 and 26 mm with width between of 1.0 and 3.0 mm.	-40~100	R=10	NF-DF04
	Free cut	Contact type with protection tube of 500mm length (free-cut). Mechanically protect the fiber from liquid ball that accumulates at the tip.	-40~70	protective tube R=20 fiber R=10	NF-DF06
	Heat resistant Free cut	Contact type of heat resistant material up to 105 Celsius. Mechanically protect the fiber from liquid ball that accumulates at the tip. Protection tube : Fluorine 500mm, free-cut	-40~105	protective tube R=20 fiber R=10	NF-DF08
φ4	Free cut	Contact type with protection tube of 2,000mm length (free-cut). Mechanically protect the fiber from liquid ball that accumulates at the tip.	-40~70	R=60	NF-DF03

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

LENS FOR THRU-BEAM FIBERS

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

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

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



	Dimintions (mm)	Applicable fiber cable	D3RF Sensing distance(mm)							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		
		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		
Super Long distance		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		
		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		
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</							

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

		Sensing head	Sensing distance (unit:mm) by Infrared-type Proximity Sensors		Operation temperature (℃ ~℃)	Radius (mm)	Part Number
			D3IF series (by operating mode)	BIF series			
Through-beam	M4	Heat resistant	>EL 650 <UL 350 <PL 300 <PL 250 <BT 230 <FS 150 <HS 60	100	-40~200	R=25	NF-TW01
	M6	Heat resistant	>EL 280 <UL 125 <PL 110 <PL 100 <BT 85 <FS 45 <HS 20	30	-40~200	R=25	NF-DW01

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Sensing distance of diffuse type is for 500 x 500mm white paper.