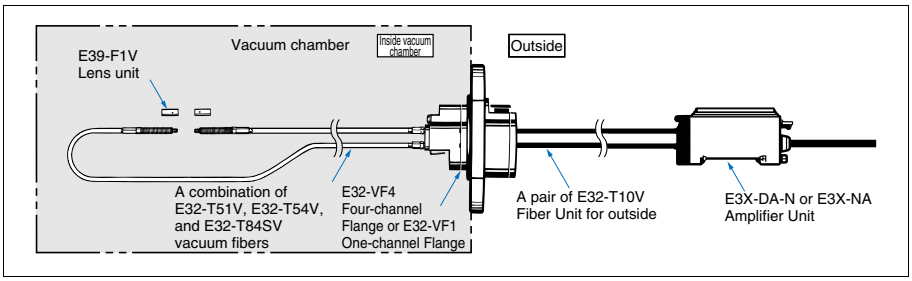
Vacuum Sensor

E32-V

- The 4-CH multi-flange contributes to conserve vacuum chamber space.
- One-touch fiber installation significantly reduces man-hours (4-CH flange).
- The fiber unit for outside can be freely cut on both ends, thus avoiding messy routing.
- A screw-type 1-CH flange is also available.
- Heat-resistant vacuum fiber is also available for high-temperature environments.

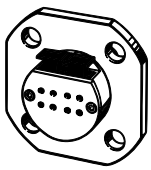
Configuration (typical example)



Ordering Information

Sensors

Flanges

Shape	Item	Model
	4-CH flange	E32-VF4
	1-CH flange	E32-VF1

Vacuum Fibers

Shape	Item	Model *
	Through-beam, straight model	E32-T51V 1M
	Through-beam, L-shaped model	E32-T54V 1M
	Through-beam, Heat-resistant model	E32-T84SV 1M

* A 0.5-m type is also available. Please inquire for more information.

Fiber Unit for Outside

Shape	Item	Model
	General	E32-T10V 2M

Accessories (Order Separately)

Mounting Brackets

Shape	Model	Quantity	Remarks
	E39-L54V	2	Can be used with the E32-T54V.

Lens Unit

Shape	Model	Quantity	Remarks
	E39-F1V	2	Long distance lens unit: Can be used with the E32-T51V and E32-T54V.

Rating/Performance

Flanges

Item \ Number of channels	4	1 CH
Model	E32-VF4	E32-VF1
Leakage	1 x 10-10 Pam^3/s or less	
Ambient temperature	Operating/storage: -25 to +55°C	
Material	Aluminum (A5056)	Stainless steel (SUS304) Aluminum (A5056)
Flange seal material	Fluoroelastomer (Viton)	
Weight (Packed state)	Approx. 280 g	Approx. 240 g

Fiber Unit for Outside

Item \ Sensor type		Fiber Unit for Outside
Model		E32-T10V
Standard length		2 m (free cutting allowed)
Ambient temperature		Operating/storage: -25 to +70°C
Permissible bending radius		25 mm min.
Weight (Packed state)		Approx. 170 g
Material	Core	Acrylics
	Sheath	Fluororesin
	Protection tube	Black polyethylene

Vacuum Fibers

Item \ Sensor type			Vacuum-side fiber transmission type		
Model			E32-T51V	E32-T54V	E32-T84SV
Standard length			1 m (no free cutting)		
Sensing distance	When using the E3X-DA-N	Super long-distance mode:	250 mm	200 mm	600mm
		Standard mode:	200 mm	130mm	480mm
		Super high-speed mode:	70mm	50 mm	180mm
	When using the E3X-NA		100 mm	65mm	250 mm
Ambient temperature			Operating/storage: -25 to +120°C		Operating/storage: -25 to +200°C
Admissible bending radius			30 mm min.		25 mm min.
Weight (Packed state)			Approx. 180 g	Approx. 170 g	Approx. 180 g
Material	Core		Quartz		Optical glass
	Sheath		Fluororesin		Optical glass
	Protection tube		Fluororesin		Stainless steel (SUS304)
	Fiber head/Connection tube		Aluminum (A5056) Stainless steel (SUS304)		

Lens Unit

Item / Sensor type / Model			Long-Distance Lens Units E39-F1V	
Applicable Fiber			E32-T51V	E32-T54V
Sensing distance	When using the E3X-DA-N	Super-long-distance mode:	1280mm	630mm
		Standard mode:	1000mm	500 mm
		Super-high-speed mode:	360mm	250 mm
	When using the E3X-NA		600mm	390mm
Ambient temperature			Operating/storage: -25 to +120°C	
Weight (Packed state)			Approx. 5 g	
Material	Housing		Aluminum (A5056)	
	Lens		Optical glass	

Precautions

Important

Mounting

Cleaning

Although Flanges, Vacuum Fibers, and Lens Units are cleaned before shipping, clean them with alcohol before use in high-vacuum chambers to make sure there is no foreign matter on them.

Pulling and compression

Do not expose the fiber unit to pulling, compression, or other undo force (29.4 N or less).

Miscellaneous

Application

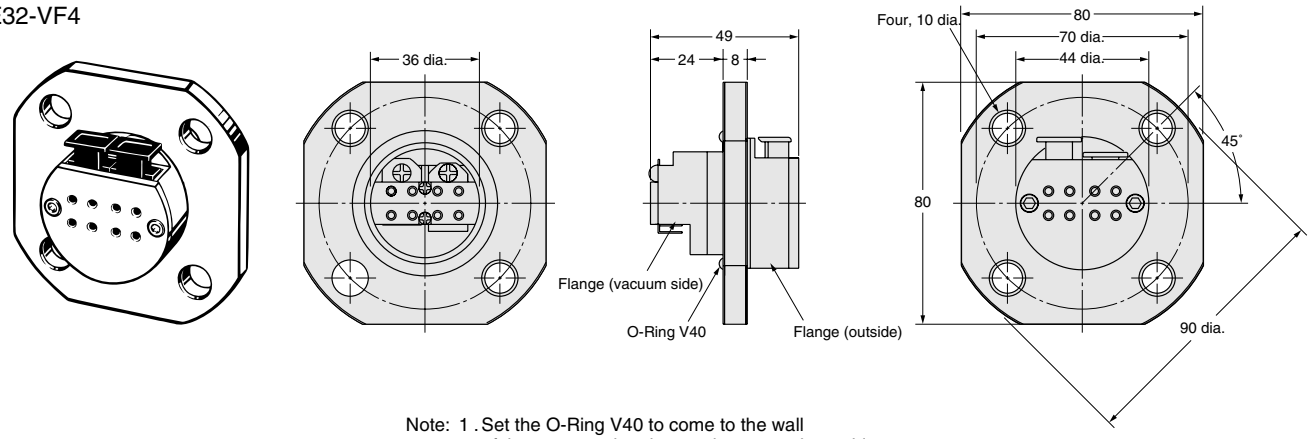
This vacuum-proof fiber unit is used to detect various types of work in a high-vacuum and 120°C (in parts 200°C) high-temperature chamber (vacuum chamber).

Dimensions (Unit: mm)

Sensors

Flanges

E32-VF4



Note: 1 . Set the O-Ring V40 to come to the wall of the vacuum chamber on the atmosphere side.
2 . Mounting hole:38±0.5 mm