



# PM Fiber Optic Feedthrough

## Polarization maintaining feedthrough with adapter interface



We offer vacuum PM fiber feedthroughs with adapter of FC termination. Due to the unique sealing process of PM fiber within a feedthrough a minimal insertion loss (IL) and high extinction ratio (ER) is achieved.

Our vacuum feedthrough-flange assemblies are compatible with UHV environment. As they feature build in adapters, they eliminate the use of stand-alone PM adaptors and easy attachment onto patch-cords with PM/FC termination. Their sophisticated mechanical design allows for easy removal of feedthroughs from a flange as well as easy disassembly of individual feedthroughs, which provides for easy replacement of any part of the whole assembly.



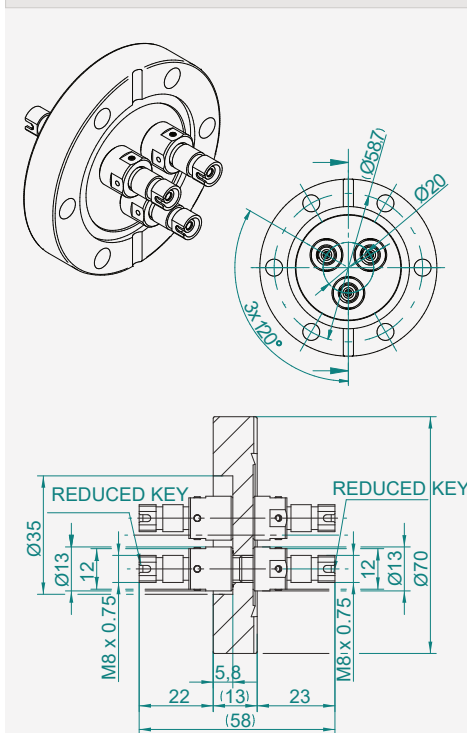
High Vacuum (HV) & Ultra High Vacuum (UHV)	
Sealed optical fibers	Polarization maintaining fibers (Panda or bow tie)
Wavelength range	350 - 2000 nm
Extinction ratio	> 20 or > 25 dB
Angle misalignment*	$\pm 2,5^\circ$
Hermeticity	$10^{-10}$ to $10^{-12}$ mbar.l/s
Flange type	CF, KF, others or without flange
Flange material	Stainless steel 304, 316L or others
Housing material	Stainless steel 304L, 316L or others
Operating temperature	-20 + 70°C
Adapter interface (female)	FC/APC or FC/PC (Narrow key)

\*) between real axis (fast or slow) and connector's key

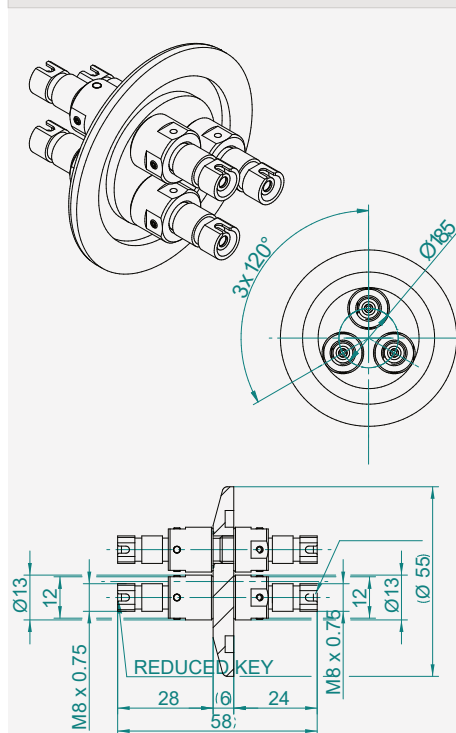
Note 1: All feedthroughs are fully removable from flange

Note 2: Easy replacement of ferrule's sleeve inside the adapter on both ends of a feedthrough

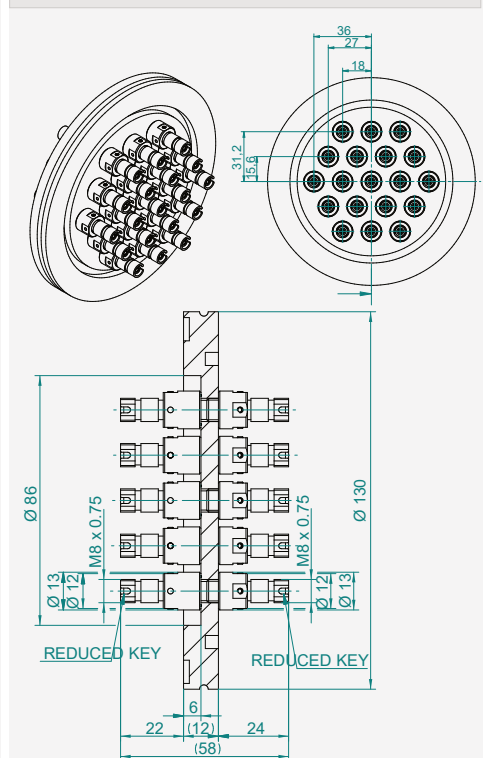
VF - 3PMFCA01 - CF40 (90710008 v.02)



VF - 3PMFC01 - KF40 (90710003 v.02)



VF - 19PMFC01 - ISO100 (90710016)



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