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Table 3.1 Brief comparisons of the proposed sensor networks**.**

List of Acronyms

ASE	Amplified spontaneous emission
C	Coupler
CO	Center office
EDFA	Erbium doped fiber amplifier
EDWA	Erbium doped waveguide amplifier
FBG	Fiber Bragg grating
FPLD	Fabry-Perot laser diode
MVS	Minimum variance shift
NZDSF	Non-zero dispersion shifted fiber
IWDM	Intensity and wavelength division multiplexing
OCDMA	Optical code-division multiple access
OS	1x2 optical switch
OSA	Optical spectrum analyzer
OTDM	Optical time division multiplexed
PC	Polarization controller
PBC	Polarization beam combiner
SNR	Signal-to-noise ratio
SMF	Single mode fiber
SOA	Semiconductor optical amplifier
SW	2x2 optical switch
TF	Tunable filter
WDM	Wavelength division multiplexed
VODL	Variable optical delay line