$\bowtie \{\text{swP}, \text{sw}\}$
$\langle \text{route}, \_e3, \text{swP}, \text{sw}, \_e2, \text{sensor}, \_e4, \_e1 \rangle$

$\triangleright \{\text{route}, \text{sensor}\}$
$\langle \text{route}, \_e3, \text{swP}, \text{sw}, \_e2, \text{sensor}, \_e4 \rangle$

$\Uparrow_{(\text{sw} : \text{Switch})}^{(\text{swP} : \text{SwitchPosition})} [\_e1 : \text{target}]$
$\langle \text{sw}, \text{swP} \rangle$

$\bowtie \{\}$
$\langle \text{route}, \_e3, \text{swP}, \text{sw}, \_e2, \text{sensor} \rangle$

$\Uparrow_{(\text{route} : \text{Route})}^{(\text{sensor} : \text{Sensor})} [\_e4 : \text{gathers}]$
$\langle \text{route}, \text{sensor} \rangle$

$\Uparrow_{(\text{route} : \text{Route})}^{(\text{swP} : \text{SwitchPosition})} [\_e3 : \text{follows}]$
$\langle \text{route}, \text{swP} \rangle$

$\Uparrow_{(\text{sensor} : \text{Sensor})}^{(\text{sw} : \text{Switch})} [\_e2 : \text{monitoredBy}]$
$\langle \text{sensor}, \text{sw} \rangle$