$$
\begin{tikzcd}
 & & ? \arrow[r, two heads] \arrow[d] & 0 \arrow[d] & & \ker(g^\bullet) \arrow[d] \\
 & 0 \arrow[r] \arrow[d] & M \otimes I \arrow[r, equal] \arrow[d] & M \otimes I \arrow[r] \arrow[d] & 0 & S^\bullet \arrow[d, "g^\bullet"] \\
0 \arrow[r] & M \otimes X \arrow[r, "\binom{0}{1}"] \arrow[d, equal] & M \oplus (M \otimes X) \arrow[r, two heads, "{(1,0)}"] \arrow[d, two heads] & M \otimes A \arrow[r] \arrow[d, two heads] & 0 & T^\bullet \arrow[d] \\
 & M \otimes X \arrow[r] \arrow[uuurr, dotted, no head] & M \otimes Y \arrow[r, two heads] \arrow[d] & M \otimes A/I \arrow[r] \arrow[d] & 0 & \operatorname{cok}(g^\bullet) \\
 & & 0 & 0 & &
\end{tikzcd}
$$