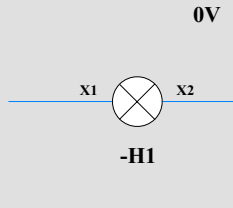
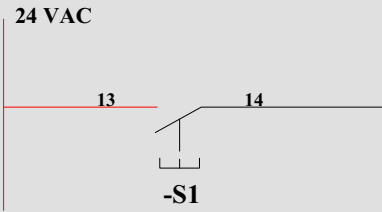
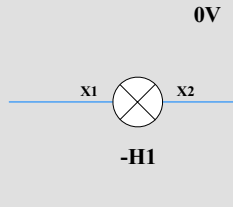
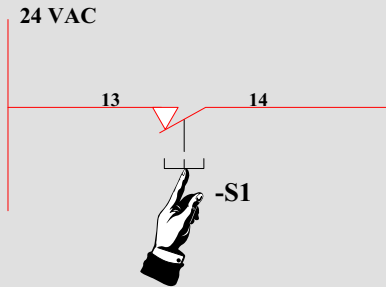


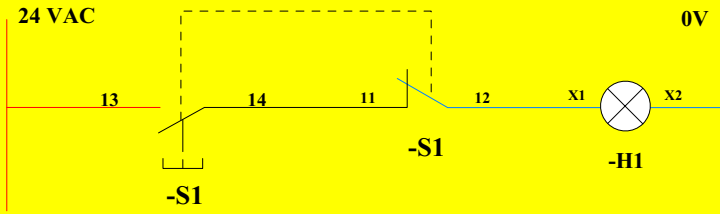
Règles logiques

PRODUIT LOGIQUE

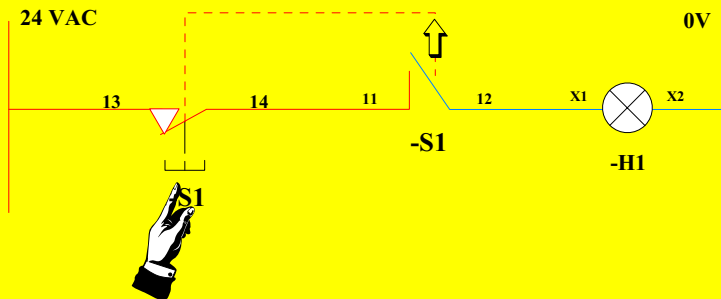


S1 et 0 = 0 ou S1.0 = 0





$S1$ et $\overline{S1} = 0$ ou $S1.\overline{S1} = 0$



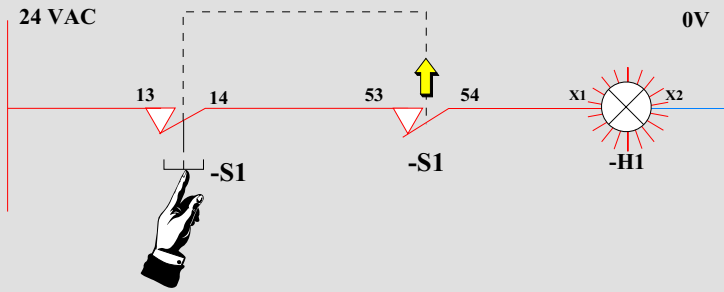
Complémentarité

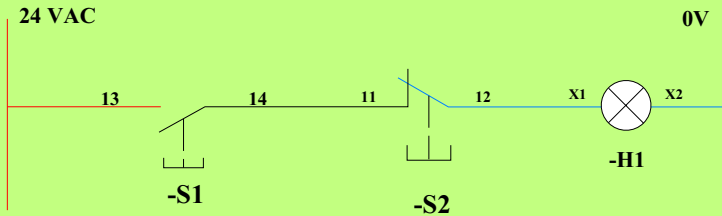
La complément de a est \overline{a} "a barre"



Idempotence

S1 et S1 = S1

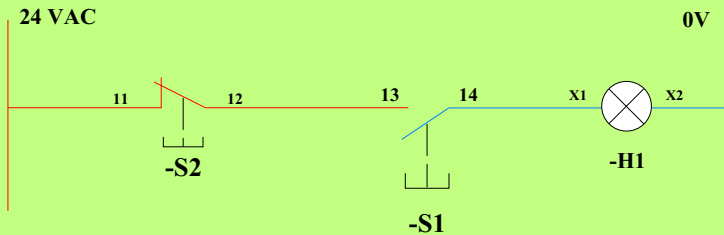


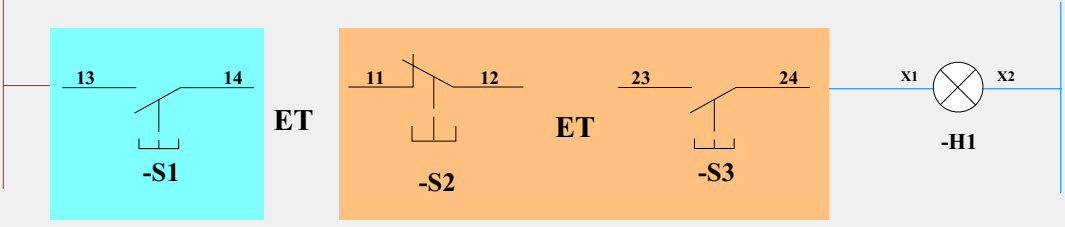


S1 ET S2 = S2 et S1

S1 . S2 = S2 . S1

Commutativité

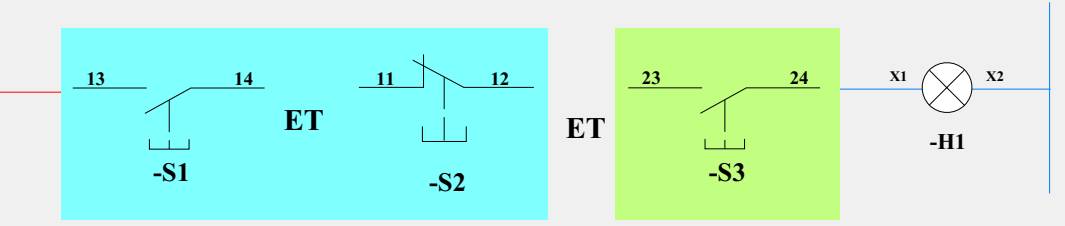




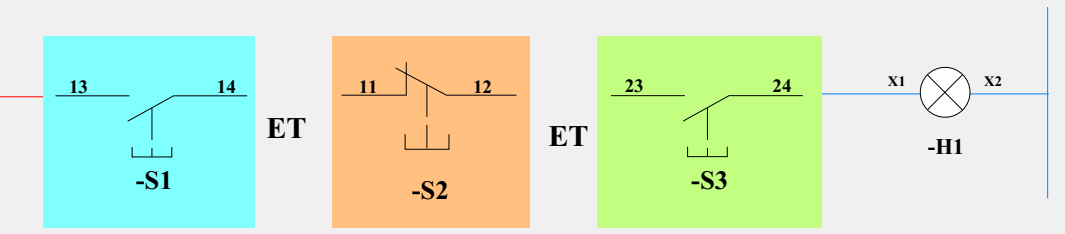
$$S1 . \overline{(S2 . S3)}$$

Associativité

$$\overline{S1 . (S2 . S3)} = \overline{(S1 . S2) . S3} = S1 . \overline{S2 . S3}$$



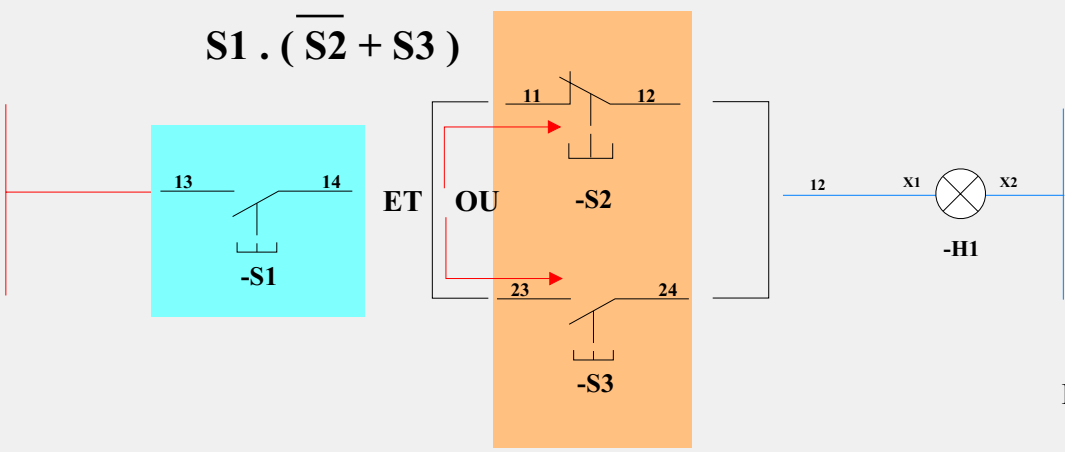
$$\overline{(S1 . S2) . S3}$$



$$\overline{S1 . S2 . S3}$$

Distributivité

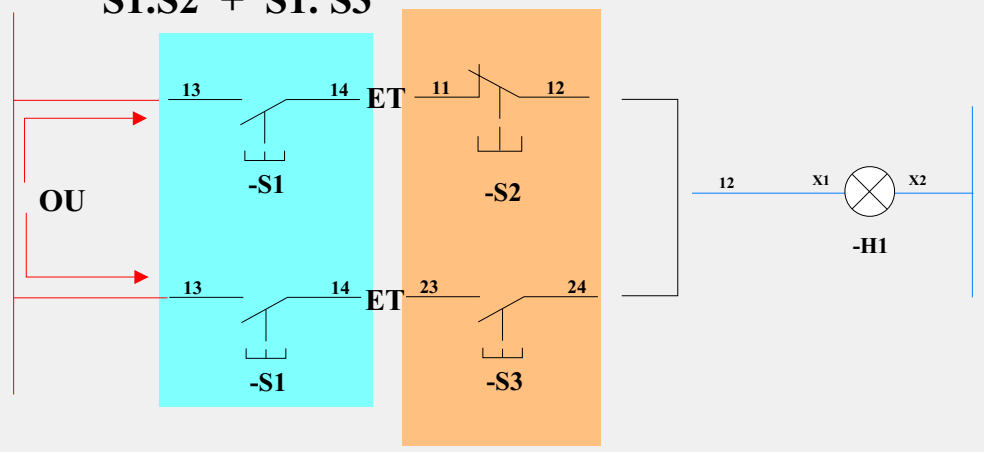
$$S1 \cdot (\overline{S2} + S3)$$



Du produit par rapport à la somme

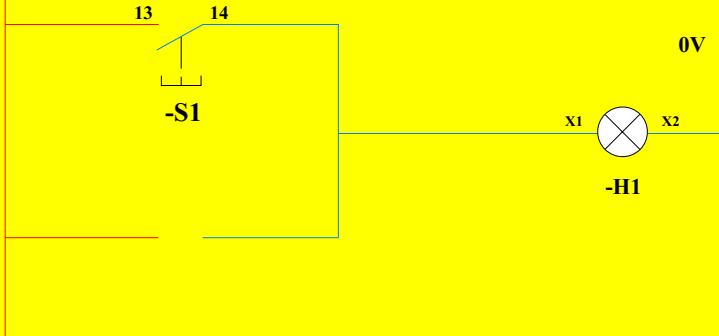
$$S1 \cdot (\overline{S2} + S3) = S1 \cdot \overline{S2} + S1 \cdot S3$$

$$S1 \cdot \overline{S2} + S1 \cdot S3$$



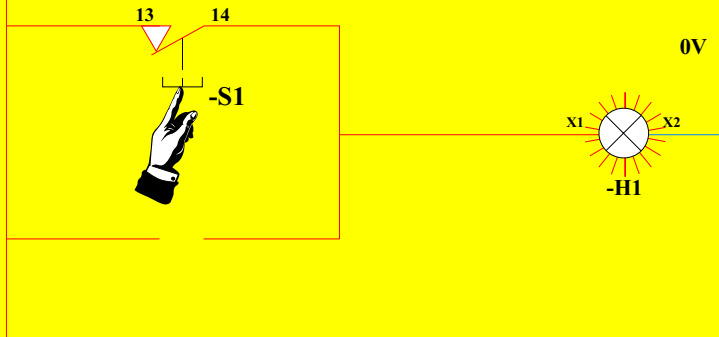
SOMME LOGIQUE

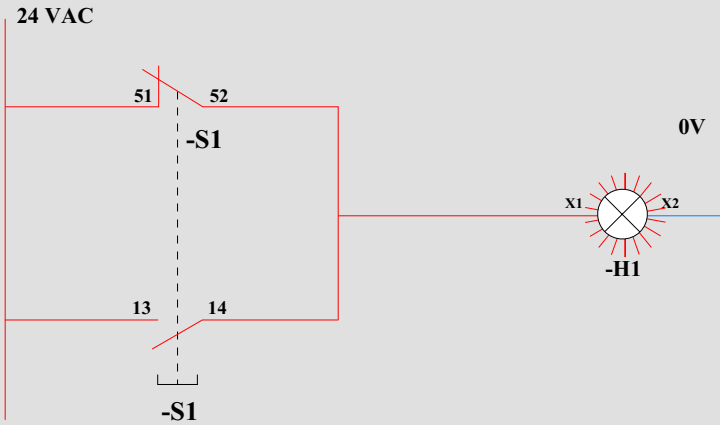
24 VAC



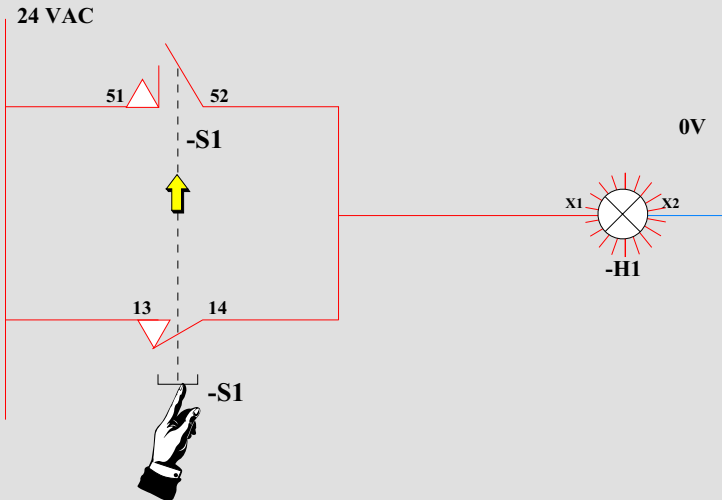
S1 ou 0 = S1 ou S1+0 =S1

24 VAC

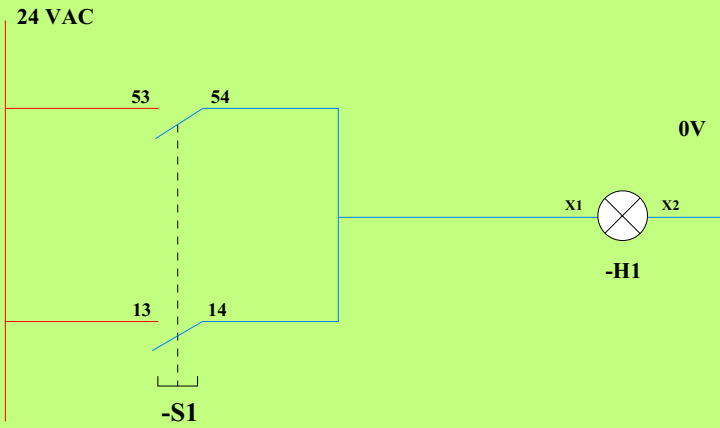




S1 ou $\overline{S1} = 1$

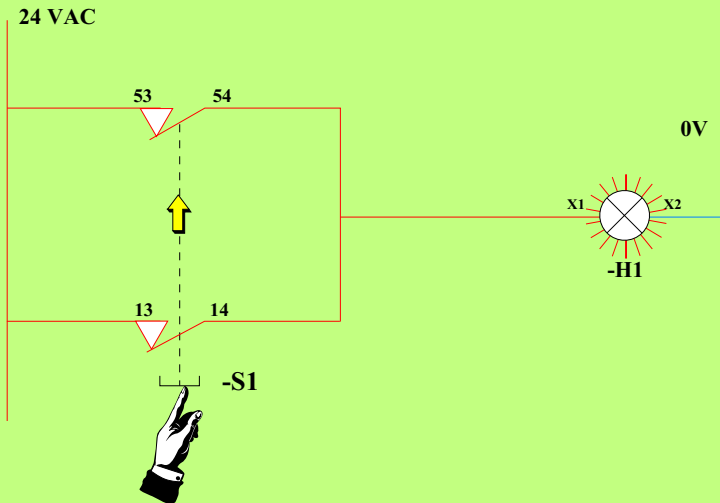


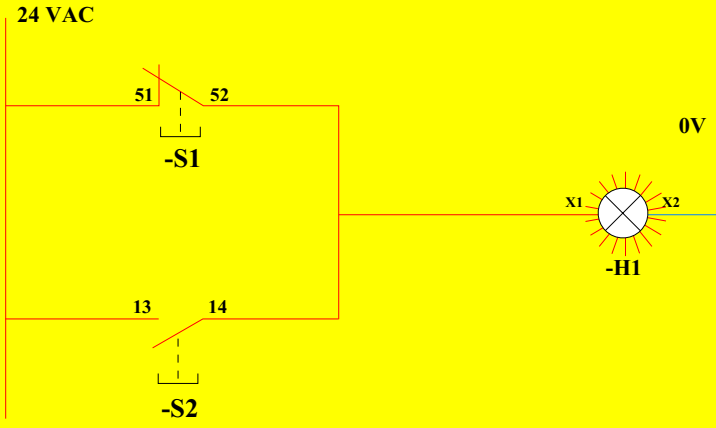
Complémentarité



Idempotence

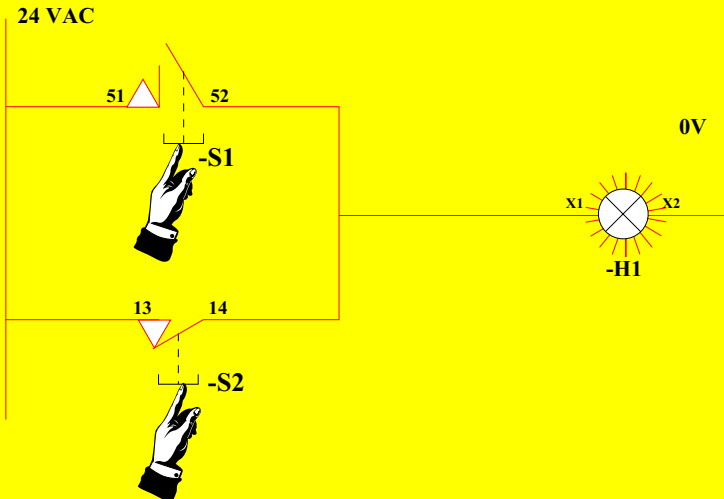
$$S1 + S1 = S1$$



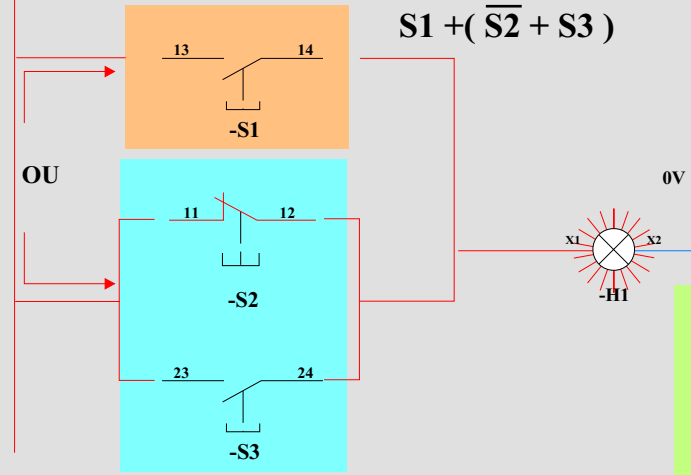


Commutativité

$$\overline{S1} + S2 = S2 + \overline{S1}$$



24 VAC

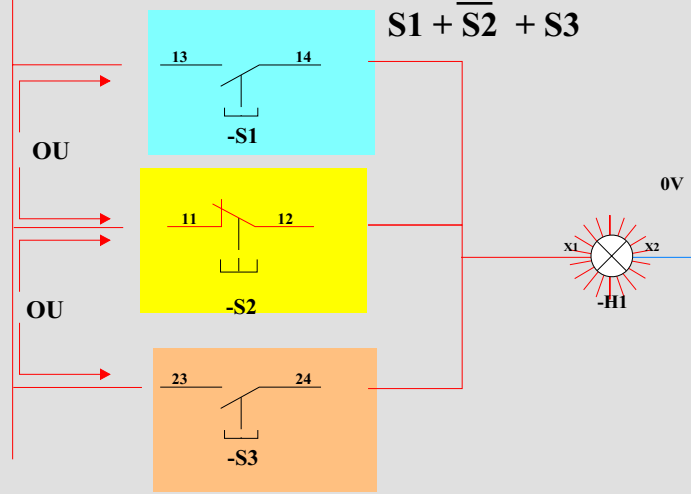


Associativité

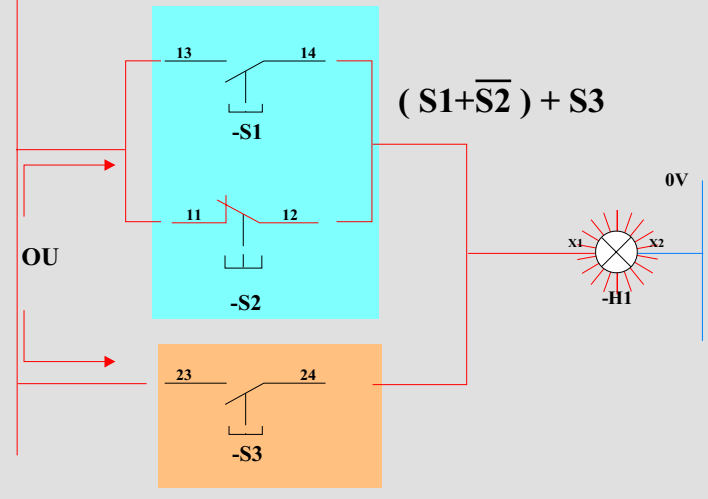
De la somme par rapport au produit

$$S1 + (\overline{S2} + S3) = (S1 + \overline{S2}) + S3 = S1 + \overline{S2} + S3$$

24 VAC



24 VAC



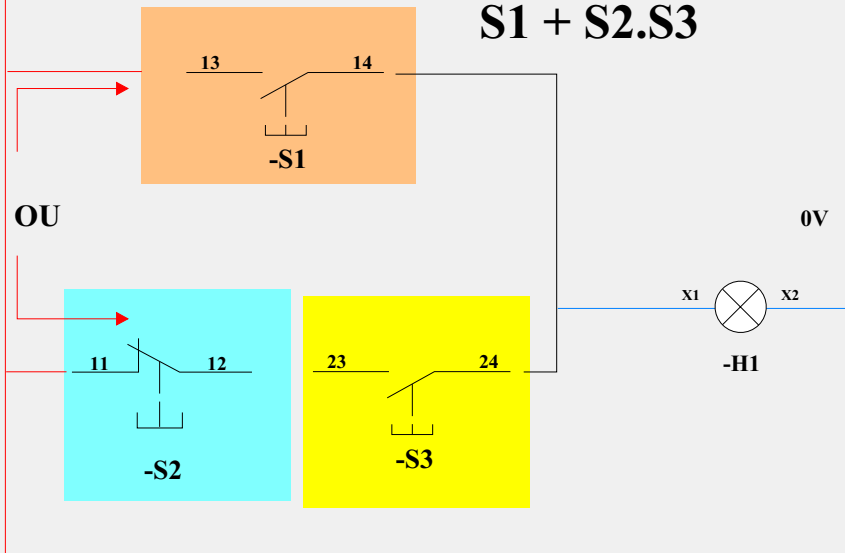
24 VAC

OU

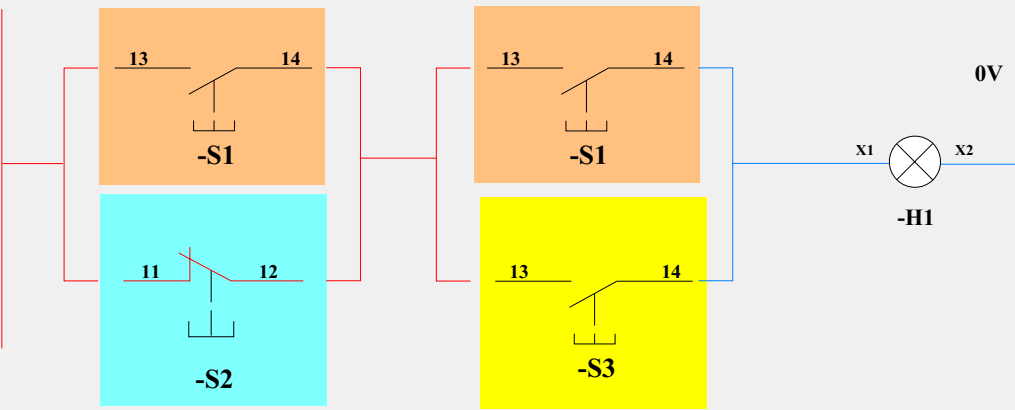
$$S1 + \overline{S2}.S3$$

Distributivité

$$S1 + \overline{S2}.S3 = (S1 + \overline{S2}) (S1 + S3)$$



$$(S1 + \overline{S2}) (S1 + S3)$$





FIN