FUNCTION\_BLOCK HYSTERESIS

(\* Boolean hysteresis on difference \*)

(\* of REAL inputs, XIN1 - XIN2 \*)

VAR\_INPUT XIN1, XIN2, EPS : REAL; END\_VAR

VAR\_OUTPUT Q : BOOL := 0; END\_VAR

IF Q THEN IF XIN1 < (XIN2 - EPS) THEN Q := 0; END\_IF ;

ELSIF XIN1 > (XIN2 + EPS) THEN Q := 1 ;

END\_IF ;

END\_FUNCTION\_BLOCK