```
(* DECLARATION *)
                                   FUNCTION_BLOCK HYSTERESIS
                                    (* Boolean hysteresis on difference *)
       +----+
                                    (* of REAL inputs, XIN1 - XIN2 *)
       HYSTERESIS |
                                    VAR_INPUT XIN1, XIN2, EPS : REAL; END_VAR
                                    VAR_OUTPUT Q : BOOL := 0; END_VAR
REAL -- | XIN1 Q | -- BOOL
REAL -- | XIN2
                                    IF Q THEN IF XIN1 < (XIN2 - EPS) THEN Q := 0; END_IF;
                                    ELSIF XIN1 > (XIN2 + EPS) THEN Q := 1;
REAL -- | EPS
                                    END_IF ;
                                   END_FUNCTION_BLOCK
```