BISTABLE SWITCH EXTENDED WITH COMMUNICATIONS - BICOM

- **RELEVANT FOR** SMART BUILDINGS, SMART INSTALLATIONS, DEMAND-SIDE-MANAGEMENT, INDUSTRY SOLUTIONS

Iskra®

FEATURES

BICOM IS A STAND-ALONE, DIN MOUNTED BISTABLE SWITCH WHICH IS EXTENDED WITH A COMMUNICATION INTERFACE IN THREE VARIANTS (CANOPEN, MODBUS, STANDARD I/O AND OTHERS ON REQUEST WITH M-BUS UNDER DEVELOPING). THE SWITCH CONTAINS 4-POLE RELAY OUTPUT BEING ABLE TO HANDLE LOADS UP TO 32A/440V (63A WILL BE AVAILABLE SOON). SWITCH IS CONTROLLABLE OVER A COMMUNICATION INTERFACE ALWAYS IN A SLAVE COMMUNICATION POSITION.

BICOM HAS BUILT-IN ELECTRO-MECHANICAL CHECK OF THE POSITION STATUS. BICOM IS AVAILABLE AS STANDALONE UNIT, BEING ALSO POWERED FROM OWN POWER SOURCE OVER AN INTERNAL POWER SUPPLY. BICOM SIGNIFICANTLY EXTENDS THE AREA OF INTENDED USE OF ISKRA BISTABLE SWITCH (SMART BUILDINGS, SMART INSTALLATIONS, DEMAND-SIDE-MANAGEMENT, INDUSTRY SOLUTIONS, ...).

BICOM-CANOpen

BICOM-CANOPEN IS AN EXTENSION OF BISTABLE SWITCH TOWARDS SMART AND INDUSTRIAL SWITCHING APPLICATIONS. IT IS COMPATIBLE WITH ISO 11898 CAN AND CIA 301/401 STANDARDS.

WITH FAST COMMUNICATION LINE (UP TO 1 Mbs), SDO, TPDO, EMERGENCY AND HEARTBEAT MESSAGES IMPLEMENTED BICOM-CANOPEN IS INTENDED TO BE USED IN ENVIRONMENT WHERE SAFETY COMMUNICATION LINKS ARE REQUIRED.

EDS FILE IS COMPATIBLE AND HAS BEEN TESTED WITH STANDARD INDUSTRIAL PLC EQUIPMENT LIKE BECKHOFF CX5120 AND SIEMENS SIMATIC S7-300 FOR EXAMPLE.

BICOM-MODBUS

THE BICOM-MODBUS IS READY TO USE BISTABLE SWITCH WITH MODBUS-RTU HIGH-SPEED RS-485 COMMUNICATION. SWITCH IS FACTORY SET WITH NO CONFIGURATION REQUIRED IN THE FIELD. WITH PREDEFINED MODBUS REGISTER TABLE IT IS INTENDED FOR USE WITH ISKRA AND ALL OTHER MODBUS COMPLIANT INDUSTRIAL ELECTRONIC DEVICES.

SWITCH COULD BE CONFIGURED ALSO BY USER USING ISKRA CONFIGURATION SOFTWARE MiQEN. SWITCH ENABLES TWO-WAY COMMUNICATION WITH ITS UNIVERSAL ANALOGUE OUTPUT, ADDING SOME ADVANCED FUNCTIONS LIKE OUTPUT POSITION STATUS, OUTPUT VOLTAGE LIMIT ALARM AND SOME OTHERS.

ALL STANDARDS COMMUNICATION MODES ARE POSSIBLE (POINT-TO-POINT AND MULTIDROP).

BICOM-I/0

IT'S A BISTABLE SWITCH EQUIPPED WITH A STATUS OUTPUT. OUTPUT IS DESIGNED AS OPEN COLLECTOR CIRCUIT WITH COMMON GROUND, WHICH CAN BE USED IN CONJUNCTION WITH PLC (PROGRAMMABLE LOGIC CONTROLER) OR LOW POWER INDICATING INSTRUMENTS.

BICOM-I/O IS INTENDED TO AUTOMATE SOME ELECTROMECHANICAL PROCESSES ON CONNECTED DEVICES. MOST INDICATING INSTRUMENTS OR PLC INPUTS REQUIRE A SIGNAL VOLTAGE OF 0 TO 5V (TTL OR CMOS LOGIC LEVELS) OR 0 TO 24 V. THEREFORE, OPEN COLLECTOR OUTPUT CIRCUITS MUST BE COMPLEMENTED WITH A "PULL-UP-RESISTOR" TO FUNCTION PROPERLY. OPTIONALLY THIS RESISTOR CAN BE INTEGRATED INTO BICOM-I/O WHEN ORDERED.