



- DIGITAL INPUTS
8
- SAFETY OUTPUTS
2 pairs OSSD
- EDM/RESTART
2
- TEST OUTPUTS
4
- STATUS OUTPUTS
2
- LOGICAL OPERATORS
64

APPROVALS

- 2006/42/EC: "Machine Directive"
- 2014/30/EU: "Electromagnetic Compatibility Directive".
- 2014/35/EU: "Low Voltage Directive"
- EN 61496-1:2013 (Type 4) "Safety of machinery - Electro sensitive protective equipment - General requirements and tests"
- EN 61131-2:2007 "Programmable controllers - Part 2. Equipment requirements and tests"
- EN 61508-1:2010 (SIL3) "Functional safety of electrical / electronic / programmable electronic safety related systems - General requirements"
- EN 61508-2:2010 (SIL3) "Functional safety of electrical / electronic / programmable electronic safety related systems - Requirements for electrical/electronic/programmable electronic safety-related systems"
- EN 61508-3:2010 (SIL3) "Functional safety of electrical / electronic / programmable electronic safety related systems: Software requirements"
- EN 61508-4:2010 (SIL3) "Functional safety of electrical / electronic / programmable electronic safety related systems - Definitions and abbreviations"
- IEC 62061:2005/A2:2015 (SILCL 3) "Safety of machinery - Functional safety of safety-related electrical, electronic and programmable electronic control systems"
- EN ISO 13849-1:2008 (Cat. 4 PL e) "Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design"
- IEC 61784-3:2008 "Industrial communication networks - Profiles - Part 3: Functional safety fieldbuses - General rules and profile definitions"
- UNI EN 81-20:2014 "Safety rules for the construction and installation of lifts. Lifts for the transport of persons and goods. Part 20: Passenger and goods passenger lift"
- UNI EN 81-50:2014 "Safety rules for the construction and installation of lifts. Examinations and test. Part 50: Design rules, calculations, examinations and tests of lift components"
- UL (C+US) mark for USA and Canada
- ANSI / UL 1998: "Safety Software in Programmable Components"
- The S-Mark carries the same weight in Korea as the CE-Mark does in Europe

Certifications



M1

STANDARD MASTER UNIT

Master unit, also usable as a stand-alone device, able to control any other expansion unit (not compatible with: MI8O4, MO4L and MA4). With 8 digital inputs and 2 pairs OSSD safety outputs.

APPLICATION EXAMPLE

Stand-alone: To provide protection for a smaller machinery connecting for example 1 safety light curtain, 1 e-stop, 1 magnetic sensor and 1 two-hand switch.

As Master unit: To control a more complex system providing protection for bigger machineries.

TECHNICAL FEATURES

Digital inputs	8 digital inputs
Safety outputs	2 pairs OSSD (PNP 400 mA output current)
EDM	2 inputs for Start/Restart interlock and external device monitoring (EDM)
Status outputs	2 programmable digital signal outputs (PNP 100 mA output current)
Test outputs	4 test outputs for sensor monitoring
LED signalling	Input/output status and fault diagnostics
Configuration	With PC via USB interface using MSD (Mosaic Safety Designer) software
MSC bus connection	With MSC connector (optional)
MCM	Mosaic Configuration Memory (optional)

ACCESSORIES

MSC Rear Bus connector: necessary to connect the Master unit to any expansion unit. As the Master unit can be used as stand-alone, the bus connector must be ordered separately.

MCM Card (Mosaic Configuration Memory): memory card designed to store the Master unit configuration as a backup. Can be used to restore the saved configuration onto a new Master unit or to duplicate the current configuration to other Master units.

PART NUMBERS

Code	Description
1100000	M1 Master unit - Screw terminal blocks
1100002	M1C Master unit - Clamp terminal blocks
1100060	MCM - Memory card
1100061	MSC - Mosaic Safety Communication connector
1100099	MSC-C - Mosaic Safety Communication connector with terminal end cap
1100062	USB configuration cable (A-mini B, length 1,8 m)
1100079	CPM - Polarizing keys for Mosaic connectors