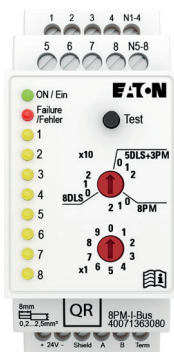


8PM-I-Bus Module

DualGuard-S – central battery system

8PM-I-Bus Module



8PM-I-Bus Module

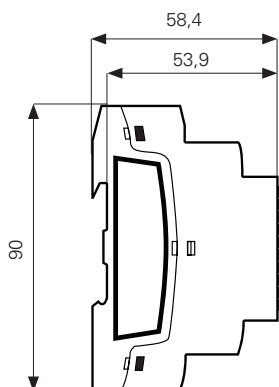
In order to avoid hazards from power failures, the status of the final circuit distribution for the general lighting must be continuously monitored so that the safety lighting can be switched on in the event of a fault. In the event of a phase failure, the 8PM I-bus module switches on all programmed safety lights via a fail-safe command. The 8PM-I-Bus modules are therefore an important part of safety lighting.

- Test button for simulating a mains emergency lighting fault, which means that there is no need to interrupt the mains voltage of the general lighting and therefore no need to interrupt ongoing operation.
- Very low power consumption of 0.4W per module
- Eight measurement inputs for monitoring up to 3 phases and up to 5 light switches.
- Eight inverted measurement inputs for monitoring up to 8 switches.
- Eight measuring inputs for monitoring up to 8 switches.
- Freely programmable assignment of the measurement inputs to the safety lighting via commissioning.
- Meets all safety lighting standards.
- High flexibility thanks to cross-device networking of the measurement inputs (subscribe / publishing) with the emergency lighting.
- No E30 wiring due to short circuit/open circuit tolerant communication. This results in significantly easier installation and cost savings.
- Large distances can be realized with bus line lengths of up to 1000 m.
- Automatic recording in the inspection log. This fulfils the normatively required documentation requirements for safety lighting.
- Meets all EMC requirements for industrial and commercial use.
- The DEKRA certification documents the product quality and compliance with standards for the entire system

Technical data

8PM-I-Bus Module	
Housing / Top / Bottom	Plastic / light grey / black
Dimensions (W x H x D mm)	35 x 90 x 61,7 / 2 TE
Assembly	DIN Rail
Terminals	0,14 – 2,5 mm ² solid 1,5mm ² flexible
Weight	0.08kg
Degree of protection	IP20
Rated voltage of device	24V DC SELV (min. 19V, max. 30V)
Power consumption (all 8 channels connected)	0.2W
Power consumption (24V supply)	0.19W
Ambient storage / shipping temperature	-20°C to +65°C
Ambient temperature range	-10°C to +55°C
Air pressure	795 bis 1080 hPa.
Maximum Mounting height	2000m
Degree of pollution	2
Relative humidity	10%...95% no condensation
Design Lifetime	>50.000h at +55°C
Over Voltage Category	3
ROHS (2011/65/EU (incl. 2015/863/EU) ROHS III (EN 63000)	Class 3
WEEE	2012/19/EU
REACH	(EG) Nr. 1907/2006

8PM-I-Bus Module - dimensions



Functional table

Function	Explanation
Systems	ZB-S, DG-S, LS-S, AT-S+, CG2000
AC Input Voltage	U Min = 198V, Umax=264V
Input Net form (Mains detection)	Mains monitoring is implemented as 2 Point Measurement Phase to its neutral potential (L-N)
Input Net Frequency range	The system is designed for a frequency deviation of the supply voltage (mains net) of 4% F max: 62.5Hz, F min: 48Hz
5 x switch input, 3 x Phase input or 8 switch inputs or 8 inverted switch inputs	8 (potential separated UN = 230V) 3-PM (chan. 1-8) > 195V-> ON < 138V-> OFF
Max. number of modules per unit / Address range	25 / 1-25
Switching	Circuit Level: SKU.1 CG-S 1 x 6A and 2 x 3A. Module Level: SKU.1 CG-S 4 x 1,5A and SOU CG-S 2 x 4A Luminaire Level per Luminaire Setup: SKU.1 CG-S 1 x 6A, 2 x 3A, 4x1,5A and SOU 2 x 4A
Selective emergency mode	Circuit Level: SKU.1 CG-S 1 x 6A and 2 x 3A. Module Level: SKU.1 CG-S 4 x 1,5A and SOU CG-S 2 x 4A
Delay Time for Emergency mode Manual reset	DualGuard-S Unit Level
Max 2 switch inputs	Via Software per luminaire or circuit
Test button	For manually function test
Status information	8 Yellow LEDs for each line 1 Green LED for operation and 1 Red LED for failure status
Fail safe Bus connection	RS 485, only in line, cable type IY(ST)Y 4*2*0.8mm, max length = 1000m
Terminal Lettering Inputs	1, 2, 3, 4 with N1-4 und 5, 6, 7, 8 with N5-8
Terminal Lettering Bus & Power supply	+24V, -24V, Shield, A, B, Term
Address / function switch 1	Tens digit 0-2 = address range 1-25 function switch 5DLS + 3PM = 5 x light switch inputs and 3 x phase monitor inputs 8 DLS = 8 x light switch input 8PM = 8 x light switch input inverted
Address Switch 2	Units digit 0-9
Lettering LEDs	Yellow LED,s = measuring input 1- 8, ON, 1 Green LED for operation and 1 Red LED for failure status

Order details

Model	Included with delivery	Order no.
8PM-I-Bus	8PM-I-Bus ZB-S, AT-S+ and DualGuard-S and CG 2000 monitoring module with the three adjustable function types. 3 x phases and 5 switching inputs or 8 x phase monitor inputs (inverted) or 8 x light switch inputs. For RS485 bus connection of a maximum of 25 modules for DIN rail mounting.	40071363080

Installation example

