

# X20(c)BM11

## 1 General information

The bus module serves as the base for all 24 VDC X20 I/O modules. The internal I/O supply is interconnected.

- Bus module for 24 VDC I/O modules
- The internal I/O supply is interconnected

## 2 Coated modules

Coated modules are X20 modules with a protective coating for the electronics component. This coating protects X20c modules from condensation and corrosive gases.

The modules' electronics are fully compatible with the corresponding X20 modules.

**For simplification purposes, only images and module IDs of uncoated modules are used in this data sheet.**

The coating has been certified according to the following standards:

- Condensation: BMW GS 95011-4, 2x 1 cycle
- Corrosive gas: EN 60068-2-60, Method 4, exposure 21 days



## 3 Order data


Model number	Short description	Figure
	<b>Bus modules</b>	
X20BM11	X20 bus module, 24 VDC keyed, internal I/O supply continuous	
X20cBM11	X20 bus module, coated, 24 VDC keyed, internal I/O supply continuous	

Table 1: X20BM11, X20cBM11 - Order data

## 4 Technical data

Model number	X20BM11		X20cBM11
Short description			
Bus module	Bus module, 24 VDC keyed, internal I/O supply continuous		
General information			
Power consumption			
Bus	0.13 W		
Internal I/O	-		
Additional power dissipation caused by the actuators (resistive) [W]	-		
Certification			
CE	Yes		
KC	Yes		-
UL	cULus E115267 Industrial Control Equipment		
HazLoc	cCSAus 244665 Process Control Equipment for Hazardous Locations Class I, Division 2, Groups ABCD, T5		
ATEX	Zone 2, II 3G Ex nA nC IIA T5 Gc IP20, Ta = 0 - max. 60°C FTZÚ 09 ATEX 0083X		
DNV GL	Temperature: <b>B</b> (0 - 55°C) Humidity: <b>B</b> (up to 100%) Vibration: <b>B</b> (4g) EMC: <b>B</b> (Bridge and open deck)		
LR	ENV1		
GOST-R	Yes		
I/O power supply			
Nominal voltage	24 VDC		
Permitted contact load	10 A		
Operating conditions			
Mounting orientation			
Horizontal	Yes		
Vertical	Yes		
Installation at elevations above sea level			
0 to 2000 m	No limitations		
>2000 m	Reduction of ambient temperature by 0.5°C per 100 m		
EN 60529 protection	IP20		
Environmental conditions			
Temperature			
Operation			
Horizontal installation	-25 to 60°C		
Vertical installation	-25 to 50°C		
Derating	-		
Storage	-40 to 85°C		
Transport	-40 to 85°C		
Relative humidity			
Operation	5 to 95%, non-condensing		Up to 100%, condensing
Storage	5 to 95%, non-condensing		
Transport	5 to 95%, non-condensing		
Mechanical characteristics			
Spacing	12.5 <sup>+0.2</sup> mm		

Table 2: X20BM11, X20cBM11 - Technical data

## 5 Voltage routing

