

B&R · B&R System 2005

3DI475.6

System 2005 16-Channel 24 VDC Digital Input Module

Exact-model official B&R product evidence found

Technical specifications

Digital inputs	16
Input groups	4
Nominal input voltage	24 VDC
Input circuit	Sink or source
Hardware input filter	12 ms maximum
Group-to-group isolation	Yes
Channel-to-channel isolation	No, within the same group
Channel-to-PLC isolation	Yes
Status indicators	I/O function per channel
Internal power consumption	1.5 W from 5 V
Degree of protection	IP20
Operating temperature	0 to 60°C
Storage temperature	-25 to 70°C
Relative humidity	5 to 95%
Required terminal block	1 x TB170 ordered separately
Certifications	CE, UKCA, cULus E115267
Dimensions (H x W x D)	16.5 x 4.0 x 11.0 cm

Documented role

B&R 3DI475.6 is a System 2005 digital input module with sixteen 24 VDC inputs arranged in four electrically isolated groups.

It acquires field sensors and switching contacts for System 2005 machine-control applications while separating the four input groups from one another and from the PLC.

Applications

- Reading 24 VDC proximity sensors and limit switches
- Separating field-input commons across four isolated groups
- Replacing legacy System 2005 input modules while preserving terminal and project mapping

Selection note

B&R 3DI475.6 must be matched by complete material number, compatible System 2005 station or CPU, slot and terminal map, power and field wiring, saved project and connected devices. Back up the configuration and perform a controlled functional test after replacement.