

DIN EN 14908-3:2007-02 (E)

Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 3: Power Line Channel Specification; English version EN 14908-3:2006

Inhalt	Seite
Foreword	3
Introduction.....	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions	5
4 General description.....	6
4.1 Electrical safety	6
4.2 Functional partitioning of PL specification	6
5 Power Line Medium specifications.....	6
5.1 Power	6
5.2 Data channel	6
5.3 Physical and electrical specifications.....	7
5.4 Connectors and coupling	7
5.5 Signal coupling between phases.....	7
5.6 Surge protection and related devices	7
6 PL Node specifications	7
6.1 Compliance	7
6.2 Interface to MAC sub-layer	8
6.3 Word encoding	8
6.4 PL packet timing.....	8
6.5 Transmitter characteristics	9
6.5.1 Carrier modulation	9
6.5.2 Waveform amplitude	9
6.5.3 Device coupling	10
6.5.4 Single phase coupling	10
6.5.5 Multiple phase coupling.....	10
6.6 Receiver characteristics	10
6.6.1 Receive mode effective input impedance.....	10
6.6.2 Receiver performance.....	11
6.6.3 Receiving on a quiet line	12
6.6.4 Receiving with interference.....	12
6.6.5 Receiving through a distorted channel.....	14
6.6.6 Receiving with impulsive noise	14
Bibliography.....	16